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DEPT. OF ENVIRO. QUALITY
WASTE & UNDERGROUND TANK
MANAGEMENT BUREAU

CENTENNIAL PARK

Construction Documents

Helena, Montana

April 2, 2010

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VICINITY MAP



Prepared For:

City of Helena
Department of
Parks & Recreation
316 N. Park Ave.
Helena, MT 59623

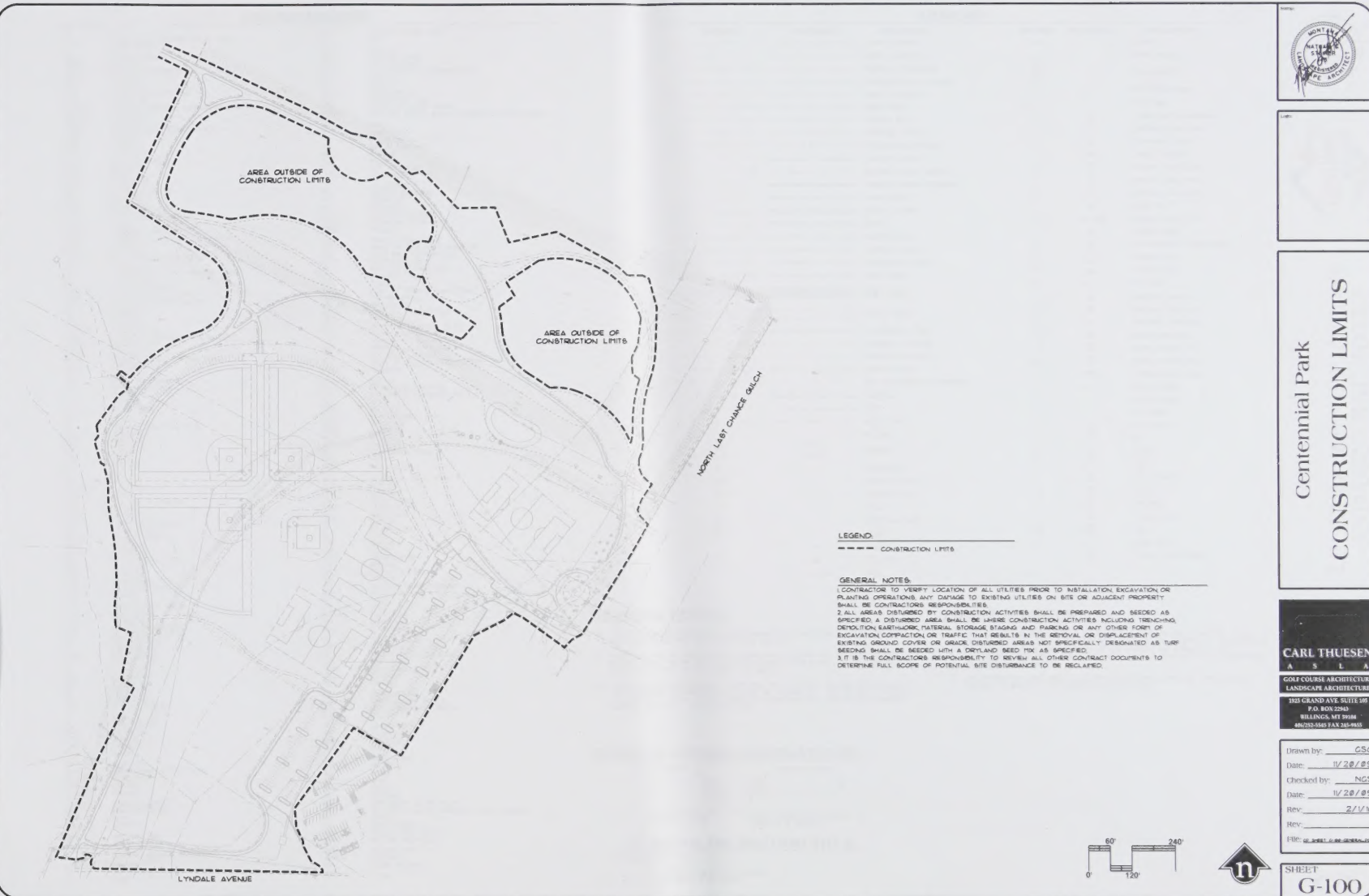
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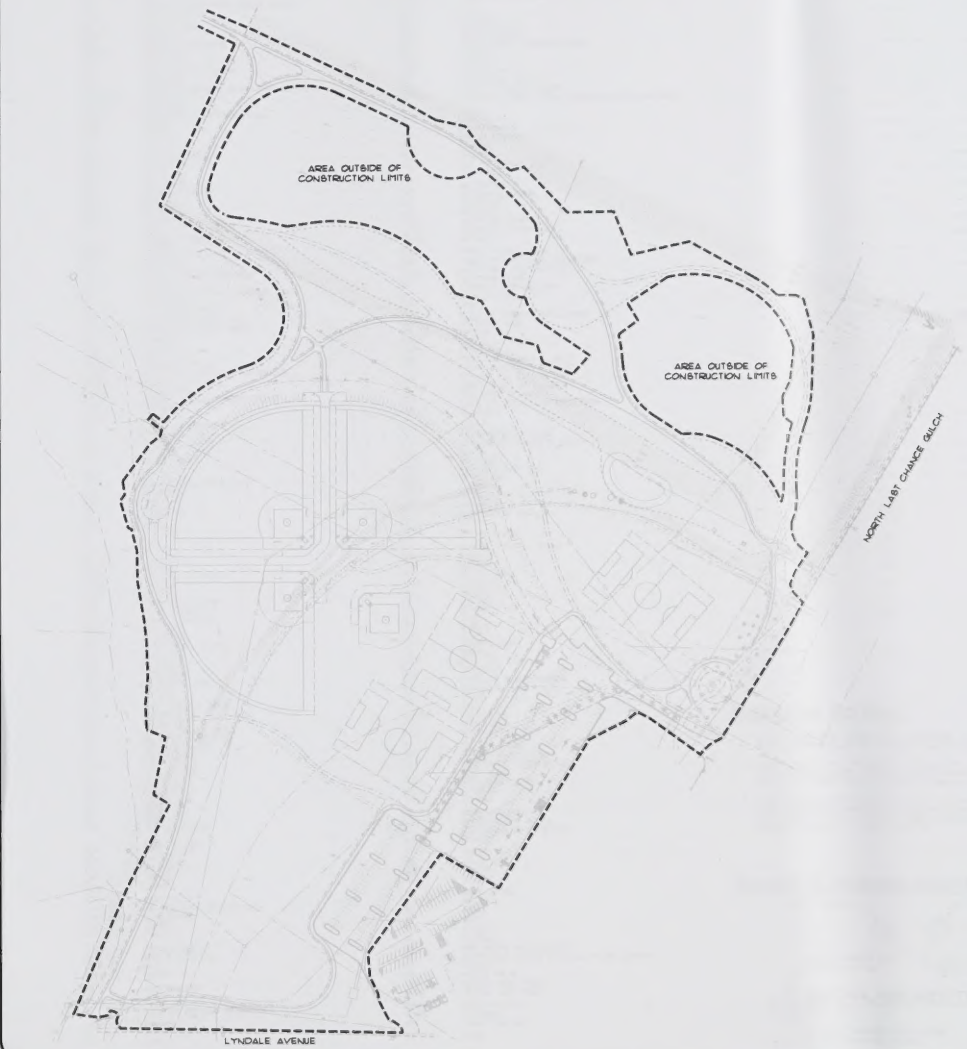
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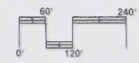


ORIGINAL



LEGEND
--- CONSTRUCTION LIMITS

GENERAL NOTES:
1. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INSTALLATION, EXCAVATION OR PLANTING OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES ON SITE OR ADJACENT PROPERTY SHALL BE CONTRACTOR'S RESPONSIBILITY.
2. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE PREPARED AND SEEDING AS SPECIFIED. A DISTURBED AREA SHALL BE THESE CONSTRUCTION ACTIVITIES INCLUDING: TREES, DETENTION, EARTHWORK, MATERIAL STORAGE, STAGING AND PARKING OR ANY OTHER FORM OF EXCAVATION, CONSTRUCTION OR TRAFFIC THAT RESULTS IN THE REMOVAL OR DISPLACEMENT OF EXISTING GROUND COVER OR GRADE. DISTURBED AREAS NOT SPECIFICALLY DESIGNATED AS TURF SEEDING SHALL BE SEEDING WITH A DRYLAND SEED MIX AS SPECIFIED.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL OTHER CONTRACT DOCUMENTS TO DETERMINE FULL SCOPE OF POTENTIAL SITE DISTURBANCE TO BE RECLAIMED.



Centennial Park
CONSTRUCTION LIMITS

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1315 GRAND AVE. SUITE 100
F.O. BOX 2040
BILLYMASS, NY 13034
(518) 352-5543 FAX (518) 352-9400

Drawn by: CSC
Date: 11/28/09
Checked by: NCS
Date: 11/28/09
Rev: 2/1/10
Rev: _____
Rev: _____

ABBREVIATIONS

•	AT	LPG	LIQUID PROPANE GAS
Δ	ANGLE OF DEFLECTION, DELTA ANGLE	LT	LEFT
•PT	ANCHOR POINT	MAX	MAXIMUM
AB	ABANDON	MD	MEASURE DOWN
ABDN	ABANDON	MFD	MANUFACTURED
AC	ASBESTOS CONCRETE	MFR	MANUFACTURE, MANUFACTURER
ADN	ADDITIONAL	MH	MANHOLE
ADJ	ADJACENT	MN	MINIMUM
ADN	ADDITIONAL	MISC	MISCELLANEOUS
ALT	ALTERNATE	MJ	MECHANICAL JOINT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MOV	MOTOR OPERATED VALVE
APVD	APPROVED	MFWSS	MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS
ARCH	ARCHITECTURE, ARCHITECTURAL	N	NORTH
ASPH	ASPHALT	NE	NORTHEAST
AVE	AVENUE	NG	NATURAL GAS
AVG	AVERAGE	NC	NOT IN CONTRACT
		NO	NUMBER
BFV	BUTTERFLY VALVE	NOM	NOMINAL
BLD	BUILDING	NTS	NOT TO SCALE
BLK	BLOCK	NW	NORTHWEST
BLVD	BOULEVARD	OC	ON CENTER
BM	BEAM, BENCHMARK	OD	OUTSIDE DIAMETER
BOT	BOTTOM	OF	OVERFLOW
BRG	BEARING	OH	OVERHEAD
BRKT	BRACKET	OHP	OVERHEAD POWER
BVC	BEGIN VERTICAL CURVE	OHT	OVERHEAD TELEPHONE
C	CENTER TO CENTER	OPNG	OPENING
CHAN	CHANNEL	PC	POINT OF CURVATURE
CHK	CHECK	PCC	POINT OF COMPOUND CURVATURE
C	CAST IRON	PE	PLAIN END, POLYETHYLENE
OPC	CAST-IN-PLACE CONCRETE	PERP	PERPENDICULAR
CRIC	CIRCULAR	PI	POINT OF INTERSECTION
CJ	CONSTRUCTION JOINT, CONTROL JOINT	PL	PROPERTY LINE
E	CENTER LINE	PNL	PANEL
CLR	CLEAR, CLEARANCE	PRC	POINT OF REVERSE CURVATURE
CMU	CORRUGATED METAL PIPE	PREFAB	PREFABRICATED
CONC	CONCRETE	PRELIM	PRELIMINARY
CONSTR	CONSTRUCTION	PREP	PREPARE, PREPARATION
CONT	CONTINUOUS, CONTINUOUS	PROP	PROPERTY
CONTR	CONTRACTOR	PRV	PRESSURE REDUCING VALVE
COORD	COORDINATE	PSF	POUNDS PER SQUARE FOOT
CP	CONTROL PANEL, CONTROL POINT	PSI	POUNDS PER SQUARE INCH
CPG	CORNER	PT	POINT, POINT OF TANGENCY
CTR	CENTER	PVC	POLYVINYL CHLORIDE
CTV	CABLE TELEVISION	PV	POINT OF VERTICAL INTERSECTION
CU	CUBIC	PVMT	PAVEMENT
CUF	CUBIC FEET	R, RAD	RADIUS
CULV	CULVERT	RC	REINFORCED CONCRETE
CY	CUBIC YARD	RCP	REINFORCED CONCRETE PIPE
		RD	ROAD
DET	DETAIL	RDCR	REDUCER
DI	DUCTILE IRON, DRAIN INLET	REBAR	REINFORCEMENT BAR
DIA	DIAMETER	REF	REFERENCE
DIAG	DIAGONAL	REINF	REINFORCE
DM	DIMENSION	REQD	REQUIRED
DR	DRIVE	RR	RAILROAD
DWG	DRAWING	RST	REINFORCING STEEL
		RT	RIGHT
E	EAST	R/W	RIGHT-OF-WAY
EA	EACH	S	SOUTH, SANITARY SEWER
EL	ELEVATION	SAN	SANITARY
ELB	ELBOW	SCH	SCHEDULE
ELC	ELECTRIC, ELECTRICAL	SD	STORM DRAIN
ENCL	ENCLOSE	SDWK	SIDEWALK
ENGR	ENGINEER	SE	SOUTHEAST
EQ	EQUAL, EQUALLY	SECT	SECTION
EQ SP	EQUAL, EQUALLY SPACED	SF	SQUARE FOOT
EQUIP	EQUIPMENT	SHT	SHEET
EQUIV	EQUIVALENT	SLP	SLOPE
EXC	EXCAVATE	SPEC	SPECIFICATION
EXP	EXPANSION	SS	STAINLESS STEEL
EXP JT	EXPANSION JOINT	STA	STATION
EXIST	EXISTING	SS	SANITARY SEWER SERVICE
		STD	STANDARD
FCV	FLOW CONTROL VALVE	ST	STEEL
FD	FLOOR DRAIN	STL	STRUCTURE
FDN	FOUNDATION	SW	SOUTHWEST
FES	FLARED END SECTION	SYN	SYMMETRICAL
FF	FINISHED FLOOR	TB	THRUST BLOCK
FFHD	FINISH GRADE	TBC	TOP BACK OF CURB
FJ	FLANGE JOINT	TBN	TEMPORARY BENCH MARK
FL	FLOW LINE	TEL	TELEPHONE
FLEX	FLEXIBLE	TEMP	TEMPORARY
FORC	FORCE MAIN	THRU	THROUGH
FT	FOOT, FEET	TYP	TYPICAL
FTG	FOOTING, FITTING	UG	UNDERGROUND
G	NATURAL GAS	UGP	UNDERGROUND POWER
GA	GAGE, GAUGE	UTL	UTILITY
GAL	GALLON	V	VALVE, VOLT
GALV	GALVANIZED	VB	VALVE BOX
GND	GROUND	VERT	VERTICAL
GVL	GRAVEL	VOL	VOLUME
H	HOSE BIB	W	WEST, WATER
HDP	HIGH DENSITY POLYETHYLENE	WTR	WATER
HOR, HORIZ	HORIZONTAL	W/	WOOD
HWT	HIGHWAY	W/O	WITHOUT
HVO	HYDRO	WL	WETLAND
ID	INSIDE DIAMETER	WM	WIRE MESH, WATER METER
IN	INCH	WS	WATERSTOP, WATER SURFACE, WATER SERVICE
INV	INVERT	WT	WEIGHT
JB	JUNCTION BOX	WV	WATER VALVE
JT	JOINT	WVF	WELDED WIRE FABRIC
K	RATE OF VERTICAL CURVATURE	WWM	WELDED WIRE MESH
LBS	POUNDS	XFMR	TRANSFORMER
LF	LINEAR FEET	X-ING	CROSSING
LN	LANE	XS	CROSS SECTION
		YD	YARD

LEGEND

EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		MAJOR CONTOUR			STUMP
		MINOR CONTOUR			SHRUB/BUSH
		OVERHEAD TELEPHONE			TREE-CONIFER
		UNDERGROUND TELEPHONE			TREE-DECIDUOUS
		CABLE TELEVISION			TREE LINE
		FIBER OPTIC			COMMUNICATION MANHOLE
		NATURAL GAS			COMMUNICATION VAULT
		OVERHEAD POWER			TELEPHONE RISER
		UNDERGROUND POWER			CABLE TV RISER
		SANITARY SEWER			NATURAL GAS METER
		SANITARY SEWER SERVICE			NATURAL GAS RISER
		SANITARY SEWER FORCEMAIN			NATURAL GAS VALVE
		STORM DRAIN			LIGHT POLE
		STORM CULVERT			STREET LIGHT POLE
		WATER			POWER RISER
		WATER SERVICE			PAD MOUNTED TRANSFORMER
		CHAINLINK FENCE			POWER VAULT
		BARBED WIRE FENCE			UTILITY POLE
		PROPERTY LINE			GUY WIRE
		WOOD FENCE			SANITARY MANHOLE
		PAVED ROAD			SANITARY CLEANOUT
		GRAVEL ROAD			SANITARY LAMPPOLE
		PROPERTY LOT LINE			STORM MANHOLE
		PROPERTY EASEMENT			STORM ROUND INLET
		PROPERTY SETBACK			STORM SQUARE INLET
		RIGHT-OF-WAY			STORM CATCH BASIN
		CITY LIMIT/DISTRICT BOUNDARY			11.25' ELBOW
		RAILROAD			22.50' ELBOW
		DITCH			45' ELBOW
		WATER EDGE			90' ELBOW
		WETLAND			TEE
		BUILDING			CROSS
		BENCHMARK			CAP
		CONTROL POINT			FIRE HYDRANT
		PROPERTY PIN			GATE VALVE
		BORING			REDUCER
		MONITORING WELL			WATER METER
		TEST PIT			WELL
		SLOPE			CURB STOP
		MAIL BOX			FROST FREE HYDRANT
		SIGN			

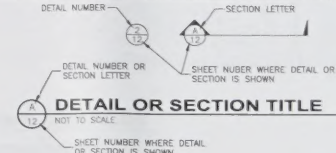
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- EXISTING UNDERGROUND UTILITIES SHOWN ARE FROM THE BEST INFORMATION AVAILABLE. THIS INFORMATION IS APPROXIMATE AND MAY BE INCOMPLETE. FOR ACCURATE LOCATION, THE CONTRACTOR SHALL CONTACT, PRIOR TO EXCAVATION, THE UTILITIES UNDERGROUND LOCATION CENTER AT 1-800-424-5555.

PROJECT NOTES:

- LANDFILL GAS EXTRACTION SYSTEM COMPONENTS AND ASSOCIATED MONITORING WELLS EXIST AT THE SITE. THE CONTRACTOR SHALL CONTACT JOEL BINGHAM AT HYDROMETRICS, INC. (406-443-4150) FOR LOCATIONS OF ALL LANDFILL GAS EXTRACTION AND MONITORING SYSTEM COMPONENTS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL UTILITY LOCATE MARKS.
- THE CONTRACTOR SHALL INSTALL ALL NEW UTILITIES ABOVE EXISTING GRADES WHERE POSSIBLE TO MINIMIZE DISTURBANCE TO EXISTING SOILS.

GENERAL DESIGN DESIGNATIONS:



Centennial Park
LEGEND - ABBREVIATIONS
AND GENERAL NOTES

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
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BILLINGS, MT 59104
406/252-5542 FAX 245-9555

Drawn by: BAA
Date: 2/1/10
Checked by: TKS
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SHEET
C-1

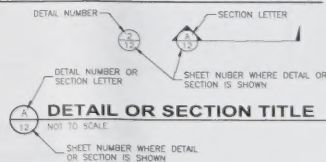
ABBREVIATIONS

0	AT	LPG	LIQUID PROPANE GAS
1	ANGLE OF DEFLECTION, DELTA ANGLE	LT	LIQUID TIGHT
2	ANGLE POINT	MAX	MAXIMUM
3	ANCHOR BOLT	MD	MEASURE DOWN
4	ABANDON	MTD	MANUFACTURED
5	ASBESTOS CONCRETE	MTR	MANUFACTURE, MANUFACTURER
6	ADON	MH	MANHOLE
7	ADJ	MN	MINIMUM
8	ADJACENT	MISC	MISCELLANEOUS
9	ABOVE FINISHED FLOOR	MJ	MECHANICAL JOINT
10	ALT	MOV	MOTOR OPERATED VALVE
11	ALTERNATE	MPHWS	MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS
12	ANSI	N	NORTH
13	APPROXIMATE	NE	NORTHEAST
14	APVD	NG	NATURAL GAS
15	ARCH	NIC	NOT IN CONTRACT
16	ARCHITECTURE, ARCHITECTURAL	NOM	NUMBER
17	ASPH	NOMINAL	NOMINAL
18	ASPH	NTS	NOT TO SCALE
19	AVE	NW	NORTHWEST
20	AVERAGE	OC	ON CENTER
21	BFV	OD	OUTSIDE DIAMETER
22	BUILDING	OF	OVERFLOW
23	BLOCK	OH	OVERHEAD
24	BLVD	OPH	OVERHEAD POWER
25	BEAM, BENCHMARK	OPH	OVERHEAD POWER
26	BOT	OPH	OVERHEAD POWER
27	BRG	OPH	OVERHEAD POWER
28	BRKT	OPH	OVERHEAD POWER
29	BVC	OPH	OVERHEAD POWER
30	BEGIN VERTICAL CURVE	OPH	OVERHEAD POWER
31	C-C	PC	POINT OF CURVATURE
32	CHANNEL	PCC	POINT OF COMPOUND CURVATURE
33	CHN	PE	PLAIN END, POLYETHYLENE
34	CHK	PERP	PERPENDICULAR
35	CAST IRON	PI	PROPERTY LINE
36	CAST-IN-PLACE CONCRETE	R	RADIUS
37	CIRCULAR	RCL	POINT OF REVERSE CURVATURE
38	CONSTRUCTION JOINT, CONTROL JOINT	PRETAB	PREFABRICATED
39	CIR	PRELIM	PRELIMINARY
40	CLEAR	PREP	PREPARE, PREPARATION
41	CLEAR, CLEARANCE	PROP	PROPERTY
42	CMP	PRV	PRESSURE REDUCING VALVE
43	CONCRETE MASONRY UNITS	PSF	POUNDS PER SQUARE FOOT
44	CO	PSI	POUNDS PER SQUARE INCH
45	COLUMN	PT	POINT, POINT OF TANGENCY
46	CONC	PVC	POLYVINYL CHLORIDE
47	CONSTR	PAI	POINT OF VERTICAL INTERSECTION
48	CONT	PWT	PAVEMENT
49	CONTR	R, RAD	RADIUS
50	COORD	RC	REINFORCED CONCRETE
51	CP	RCP	REINFORCED CONCRETE PIPE
52	CPLG	RD	ROAD
53	CENTER	REDUC	REDUCER
54	CABLE TELEVISION	REBAR	REINFORCEMENT BAR
55	CUBIC, COPPER	REF	REFERENCE
56	CUBIC FEET	REINF	REINFORCE
57	CULV	RECO	REQUIRED
58	CY	RR	RAILROAD
59	DET	RST	REINFORCING STEEL
60	DI	RT	RIGHT
61	DIAMETER	R/W	RIGHT-OF-WAY
62	DIAG	S	SOUTH, SANITARY SEWER
63	DIMENSION	SAN	SANITARY
64	DR	SO	SCHEDULE
65	DWG	SD	STORM DRAIN
66	EAST	SDWK	SIDEWALK
67	EA	SE	SOUTHEAST
68	ELEV	SECT	SECTION
69	ELB	SF	SQUARE FOOT
70	ELEC	SH	SHEET
71	ENCL	SL	SIMILAR
72	ENGR	SLP	SLOPE
73	EDGE OF PAVEMENT	SPEC	SPECIFICATION
74	EQ	SQ	SQUARE
75	EQ SP	STL	STAINLESS STEEL
76	EQUIP	STA	STATION
77	EQUIV	ST	STANDARD
78	END VERTICAL CURVE	STD	STANDARD
79	EVC	STL	STEEL
80	EW	STRUC	STRUCTURE
81	EXCAVATE	SW	SOUTHWEST
82	EXP	SYM	SYMMETRICAL
83	EXP	TB	THRUST BLOCK
84	EXP JT	TBC	TOP BACK OF CURB
85	EXIST	TBN	TEMPORARY BENCH MARK
86	FCV	TFL	TEMPORARY
87	FD	TRU	THROUGH
88	FLOOR DRAIN	TYP	TYPICAL
89	FOUNDATION	UG	UNDERGROUND
90	FES	UGP	UNDERGROUND POWER
91	FLARED END SECTION	UTL	UNDERGROUND TELEPHONE
92	FLARED END TERMINAL	UTL	UTILITY
93	FINISHED FLOOR	V	VALVE, VOLT
94	FINISH GRADE	VB	VALVE BOX
95	PHYD	VERT	VERTICAL
96	FIRE HYDRANT	W	WEST, WATER
97	FLANGE JOINT	WTR	WATER
98	FLOW LINE	WO	WOOD
99	FLEX	W/	WITH
100	FORCMAIN	W/O	WITHOUT
101	FT	WM	WIRE MESH, WATER METER
102	FOOT, FEET	WS	WATERSTOP, WATER SURFACE, WATER SERVICE
103	FOOTING, FITTING	WT	WEIGHT
104	GA	WV	WATER VALVE
105	GAGE, GAUGE	WVF	WELDED WIRE FABRIC
106	GALLON	WWM	WELDED WIRE MESH
107	GALV	XMR	TRANSFORMER
108	GROUND	X-ING	CROSSING
109	GRAVEL	XS	CROSS SECTION
110	HOSE, BID	YD	YARD
111	HDR		
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GENERAL NOTES:

- THIS IS A STANDARD LEGEND AND ABBREVIATION LIST. THEREFORE, NOT ALL SYMBOLS AND ABBREVIATIONS MAY BE USED ON THIS PROJECT.
- UNLESS MODIFIED BY THE CONTRACT DOCUMENTS, ALL WORK WILL CONFORM TO THE MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS, FIFTH EDITION, MARCH 2003 & 2006 ADDENDUM (REFERRED TO COLLECTIVELY AS MPWS).
- EXISTING UNDERGROUND UTILITIES SHOWN ARE FROM THE BEST INFORMATION AVAILABLE. THIS INFORMATION IS APPROXIMATE AND MAY BE INCOMPLETE. FOR ACCURATE LOCATION, THE CONTRACTOR SHALL CONTACT, PRIOR TO EXCAVATION, THE UTILITIES UNDERGROUND LOCATION CENTER AT: 1-800-424-5555.

GENERAL DESIGN DESIGNATIONS:



LEGEND

EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		MAJOR CONTOUR			STUMP
		MINOR CONTOUR			SHRUB/BUSH
		OVERHEAD TELEPHONE			TREE--CONIFER
		UNDERGROUND TELEPHONE			TREE--DECIDUOUS
		CABLE TELEVISION			TREE LINE
		FIBER OPTIC			COMMUNICATION MANHOLE
		NATURAL GAS			COMMUNICATION VAULT
		OVERHEAD POWER			TELEPHONE RISER
		UNDERGROUND POWER			CABLE TV RISER
		SANITARY SEWER			NATURAL GAS METER
		SANITARY SEWER SERVICE			NATURAL GAS RISER
		SANITARY SEWER FORCEMAIN			NATURAL GAS VALVE
		STORM DRAIN			LIGHT POLE
		STORM CULVERT			STREET LIGHT POLE
		WATER			POWER RISER
		WATER SERVICE			PAD MOUNTED TRANSFORMER
		CHAINLINK FENCE			POWER VAULT
		BARRIED WIRE FENCE			UTILITY POLE
		WOOD FENCE			GUY WIRE
		PAVED ROAD			SANITARY MANHOLE
		GRAVEL ROAD			SANITARY CLEANOUT
		PROPERTY/LOT LINE			SANITARY LAMPHOLE
		PROPERTY EASEMENT			STORM MANHOLE
		PROPERTY SETBACK			STORM ROUND INLET
		RIGHT-OF-WAY			STORM SQUARE INLET
		CITY LIMIT/DISTRICT BOUNDARY			STORM CATCH BASIN
		RAILROAD			11.25' ELBOW
		DITCH			22.50' ELBOW
		WATER EDGE			45' ELBOW
		WETLAND			90' ELBOW
		BUILDING			TEE
		BENCHMARK			CROSS
		CONTROL POINT			CAP
		PROPERTY PIN			FIRE HYDRANT
		BORING			GATE VALVE
		MONITORING WELL			REDUCER
		TEST PIT			WATER METER
		BOLLARD			WELL
		MAIL BOX			CURB STOP
		SIGN			FROST FREE HYDRANT

PROJECT NOTES:

- LANDFILL GAS EXTRACTION SYSTEM COMPONENTS AND ASSOCIATED MONITORING WELLS EXIST AT THE SITE. THE CONTRACTOR SHALL CONTACT JODI BINGHAM AT HYDROMETRICS, INC. (406-443-4150) FOR LOCATIONS OF ALL LANDFILL GAS EXTRACTION AND MONITORING SYSTEM COMPONENTS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL UTILITY LOCATE MARKS.
- THE CONTRACTOR SHALL INSTALL ALL NEW UTILITIES ABOVE EXISTING GRADES WHERE POSSIBLE TO MINIMIZE DISTURBANCE TO EXISTING SOILS.

Centennial Park LEGEND - ABBREVIATIONS AND GENERAL NOTES

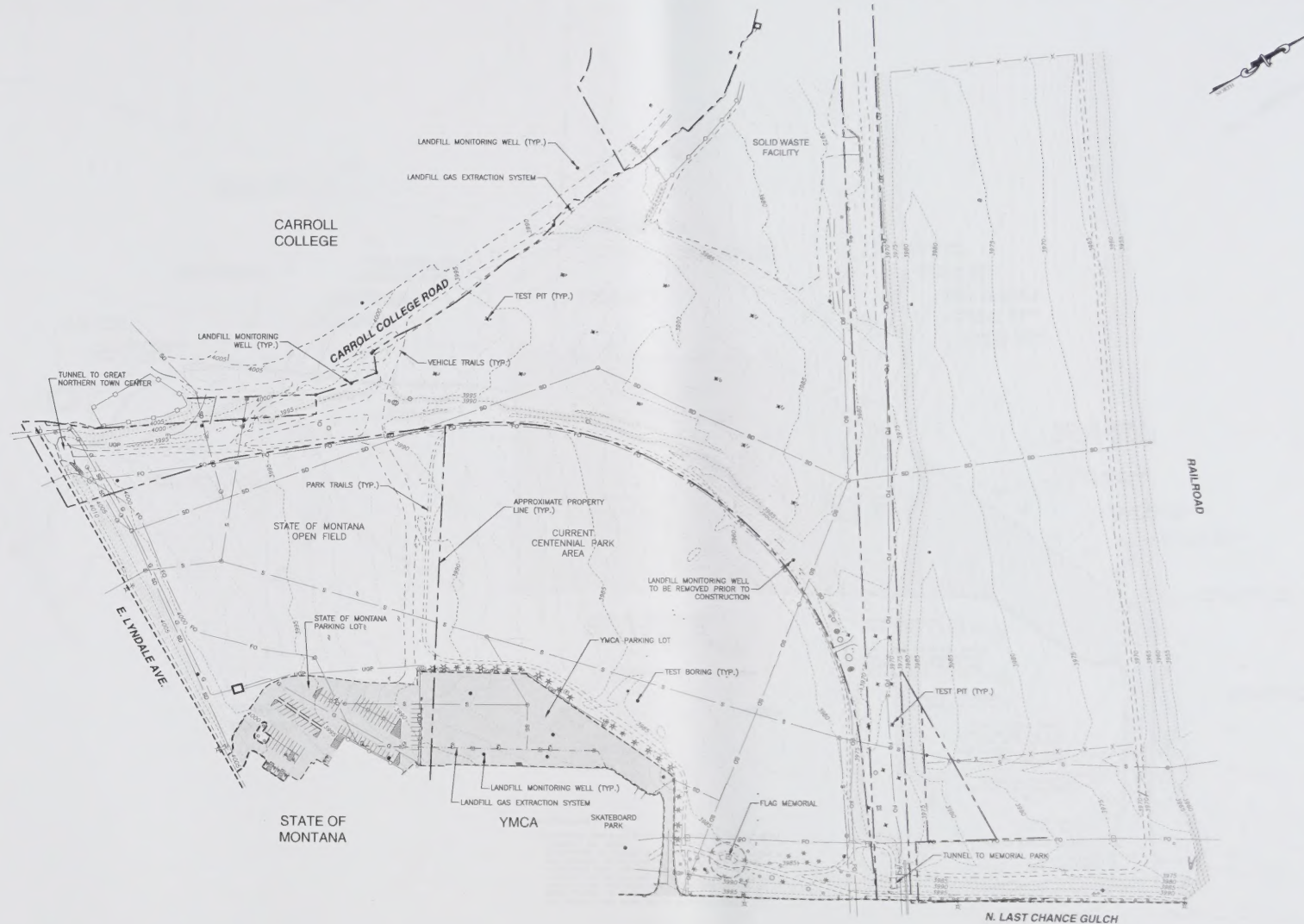
CARL THUESEN
A S L A

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE

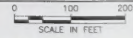
1525 GRAND AVENUE SUITE 105
PO BOX 2945
BILLINGS, MT 59108
800/252-5540 FAX 406-245-9855

Drawn by: MA
Date: 2/1/10
Checked by: TMS
Date: 2/1/10
Rev: _____
Rev: _____
File: _____

SHEET
C-1



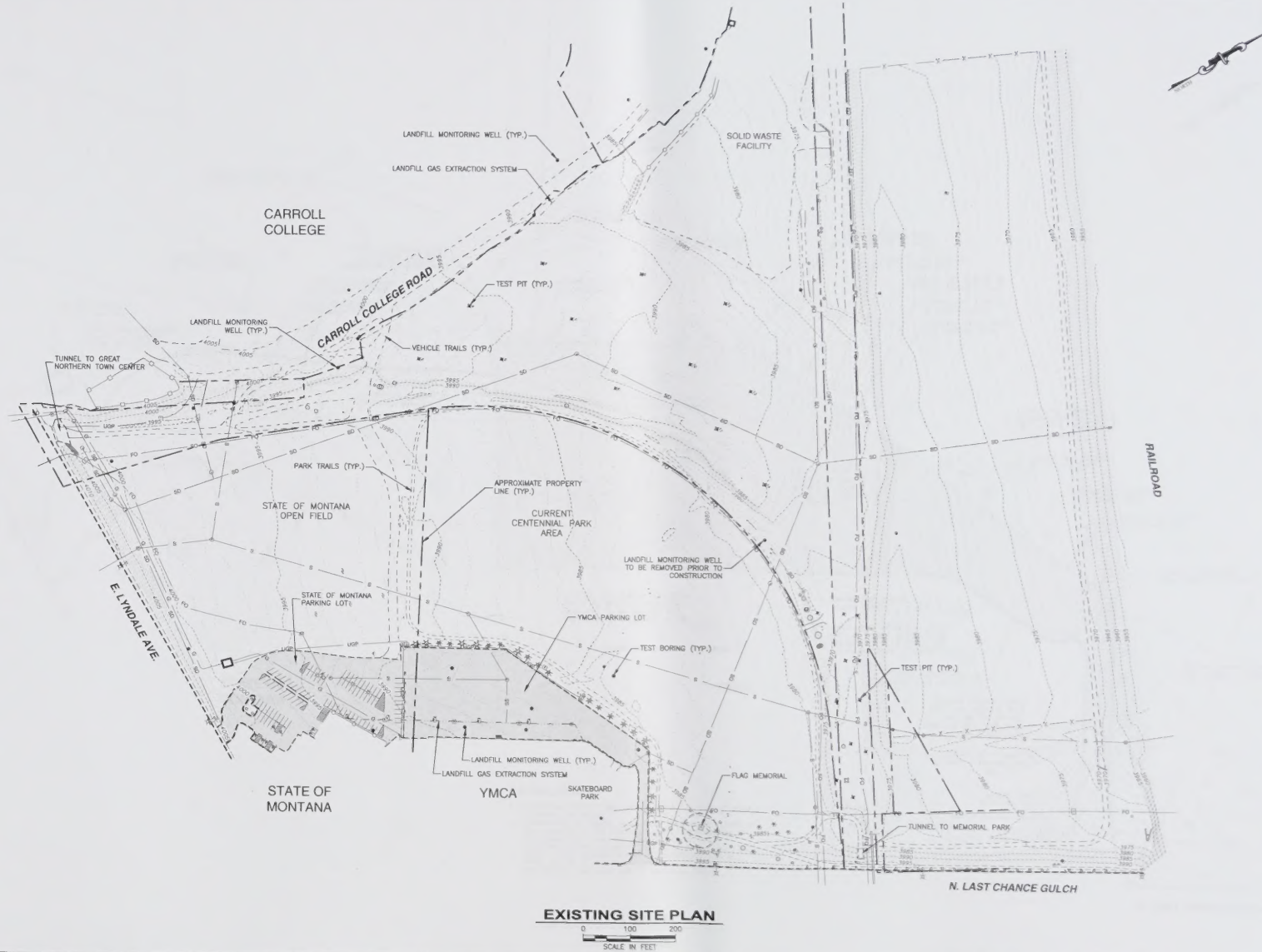
EXISTING SITE PLAN



Centennial Park
EXISTING SITE PLAN

CARL THUESEN
A S L A
GOV COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1923 GRAND AVE, SUITE 108
P.O. BOX 22840
BILLENCIA, MT 59106
409.255.5540 FAX 409.245.9855

Drawn by: DMA
Date: 2/1/10
Checked by: TNS
Date: 2/1/10
Rev: _____
Rev: _____
File: _____



Centennial Park EXISTING SITE PLAN

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1001 GRAND AVE SUITE 100
P.O. BOX 22943
BILLINGS, MT 59101
406/253-0545 FAX 245-9035

Drawn by: CAA
Date: 2/1/02
Checked by: TNS
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Rev: _____
Rev: _____
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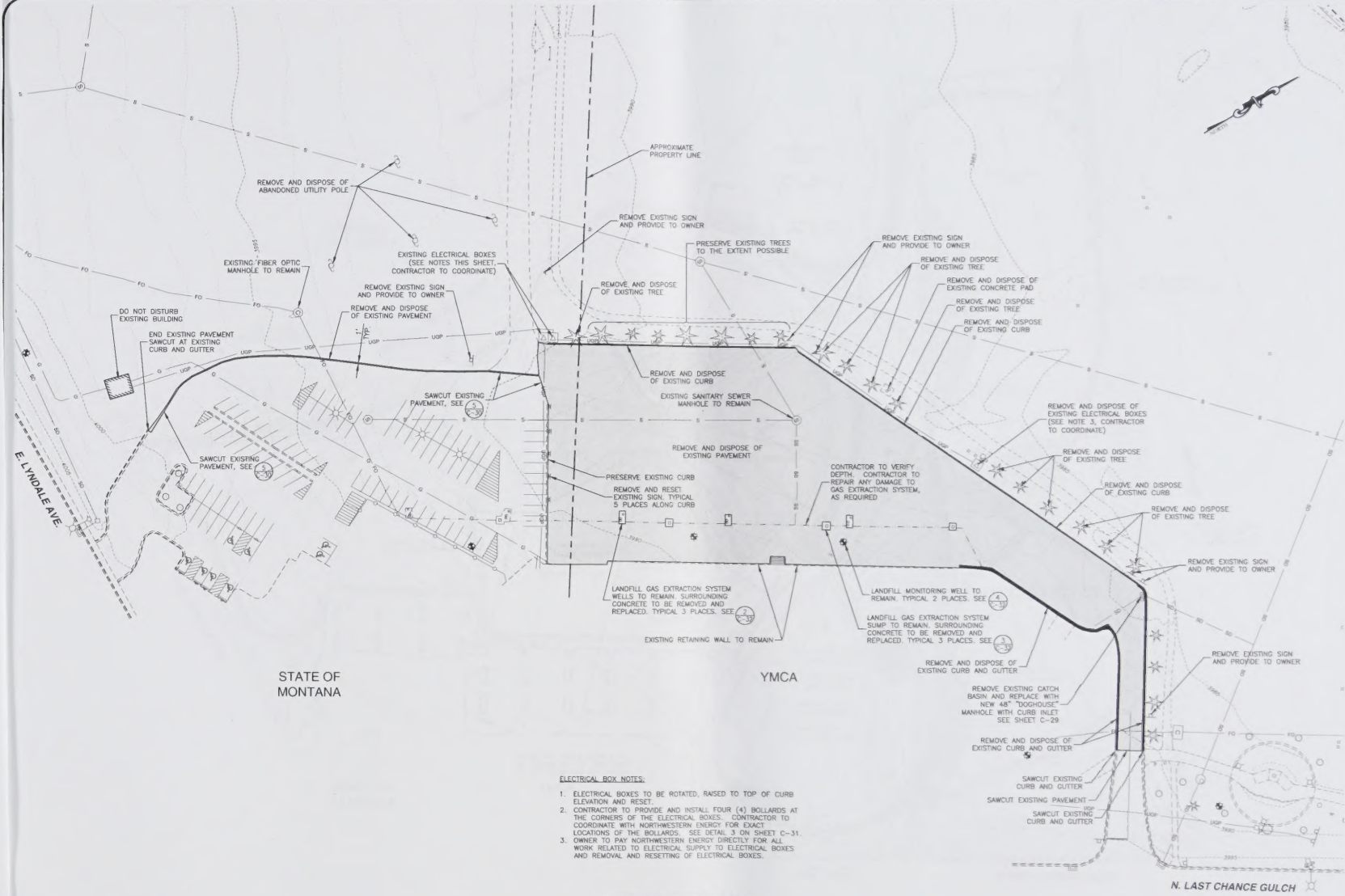


Centennial Park DEMOLITION PLAN

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1923 GRAND AVE. SUITE 105
P.O. BOX 22460
BILLINGS, MT 59101
406/252-5545 FAX 406/252-5545

Drawn by: DM
Date: 2/1/02
Checked by: TRC
Date: 2/1/02
Rev: _____
Rev: _____
File: _____

SHEET
C-3



- ELECTRICAL BOX NOTES:**
1. ELECTRICAL BOXES TO BE ROTATED, RAISED TO TOP OF CURB ELEVATION AND RESET.
 2. CONTRACTOR TO PROVIDE AND INSTALL FOUR (4) BOLLARDS AT THE CORNERS OF THE ELECTRICAL BOXES. CONTRACTOR TO COORDINATE WITH NORTHWESTERN ENERGY FOR EXACT LOCATIONS OF THE BOLLARDS. SEE DETAIL 3 ON SHEET C-31.
 3. OWNER TO PAY NORTHWESTERN ENERGY DIRECTLY FOR ALL WORK RELATED TO ELECTRICAL SUPPLY TO ELECTRICAL BOXES AND REMOVAL AND RESETTING OF ELECTRICAL BOXES.

DEMOLITION PLAN
0 40 80
SCALE IN FEET

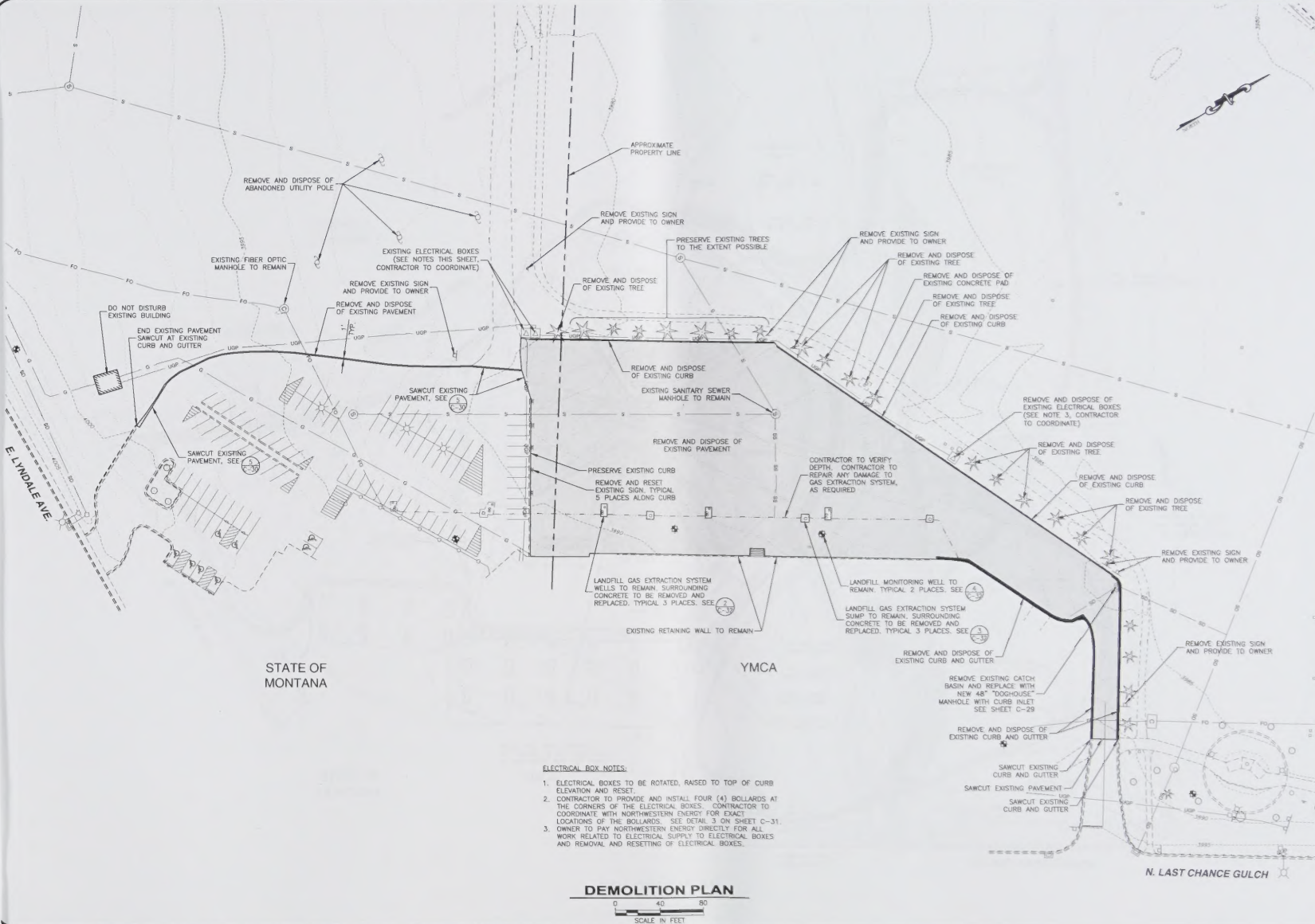


Centennial Park
DEMOLITION PLAN

1925 GRAND AVE. SUITE 106
P.O. BOX 22943
BILLINGS, MT 59104
406/252-5545 FAX 245-9855

Drawn by: DAA
 Date: 2/1/10
 Checked by: TRK
 Date: 2/1/10
 Rev: _____
 Rev: _____
 File: _____

SHEET
C-3





Centennial Park
GRADING PLAN

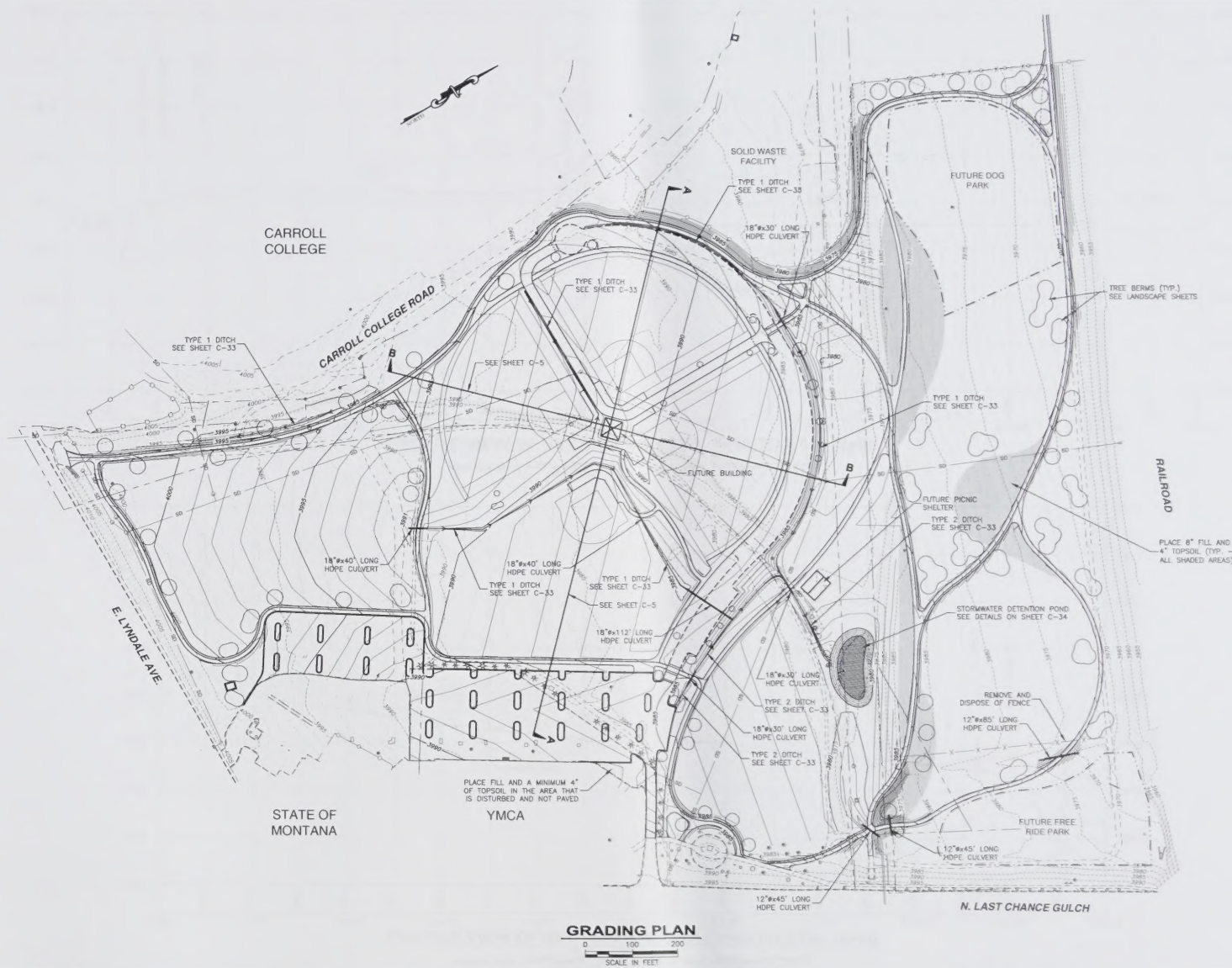
CARL THUESEN
A S L A

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE

1925 GRAND AVE. SUITE 105
P.O. BOX 22943
BILLINGS, MT 59104
406/252-5545 FAX 245-9855

Drawn by: BAA
 Date: 2/1/10
 Checked by: TKK
 Date: 2/1/10
 Rev: _____
 Rev: _____
 File: _____

SHEET
C-4





Centennial Park GRADING PLAN

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1802 GRAND AVE. SUITE 100
P.O. BOX 2206
BILLINGS, MT 59104
406/252-5545 FAX 406/252-5553

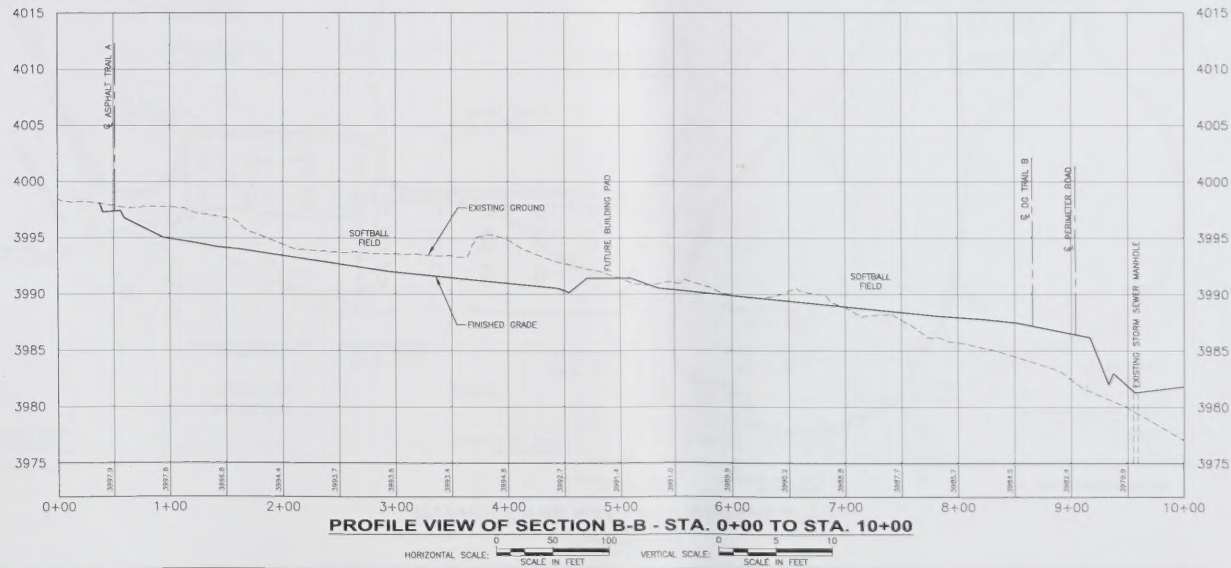
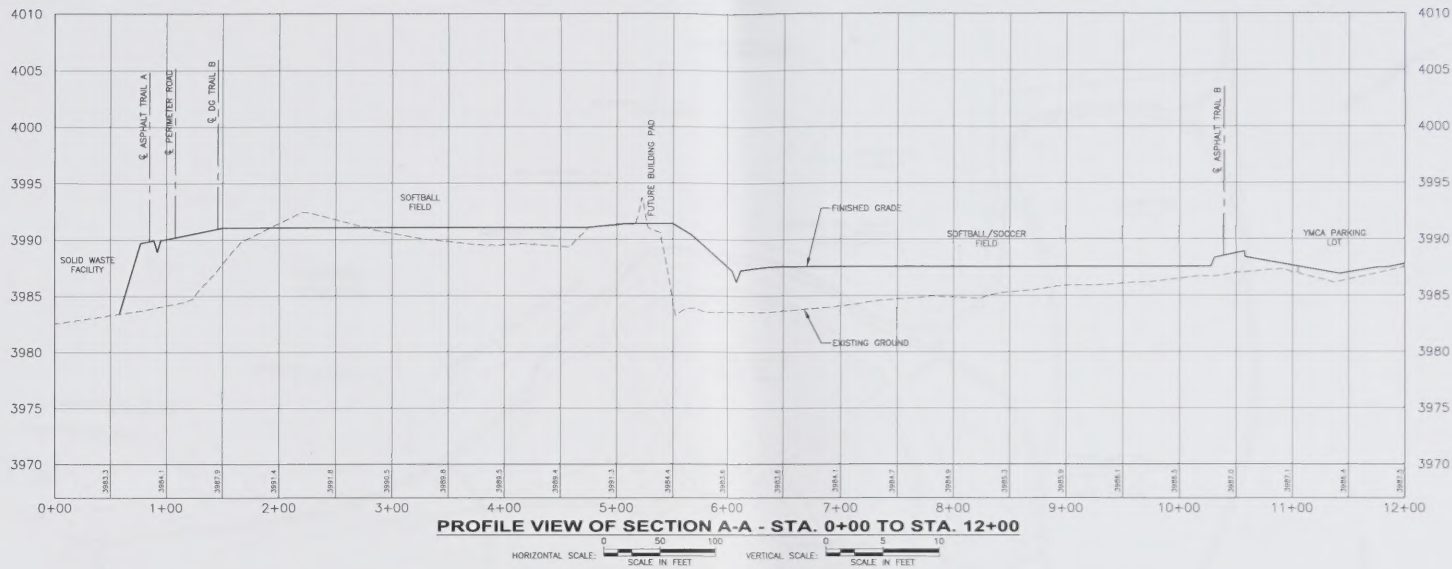
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Checked by: TRS
Date: 2/1/10
Rev: _____
Rev: _____
File: _____

SHEET
C-4



GRADING PLAN
0 100 200
SCALE IN FEET

PLAN 1-28102-02 Centennial Park Master Plan 12-08-02 (Sheet) 1-28102-02A-25-100



Centennial Park FIELD SECTIONS

CARL THUSEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1125 GRAND AVE. SUITE 105
P.O. BOX 22441
BILLINGS, MT 59108
406/532-5545 FAX 406/532-5555

Drawn by: RAM
Date: 2/1/10
Checked by: TRIS
Date: 2/1/10
Rev: _____
Rev: _____
File: _____

SHEET
C-5

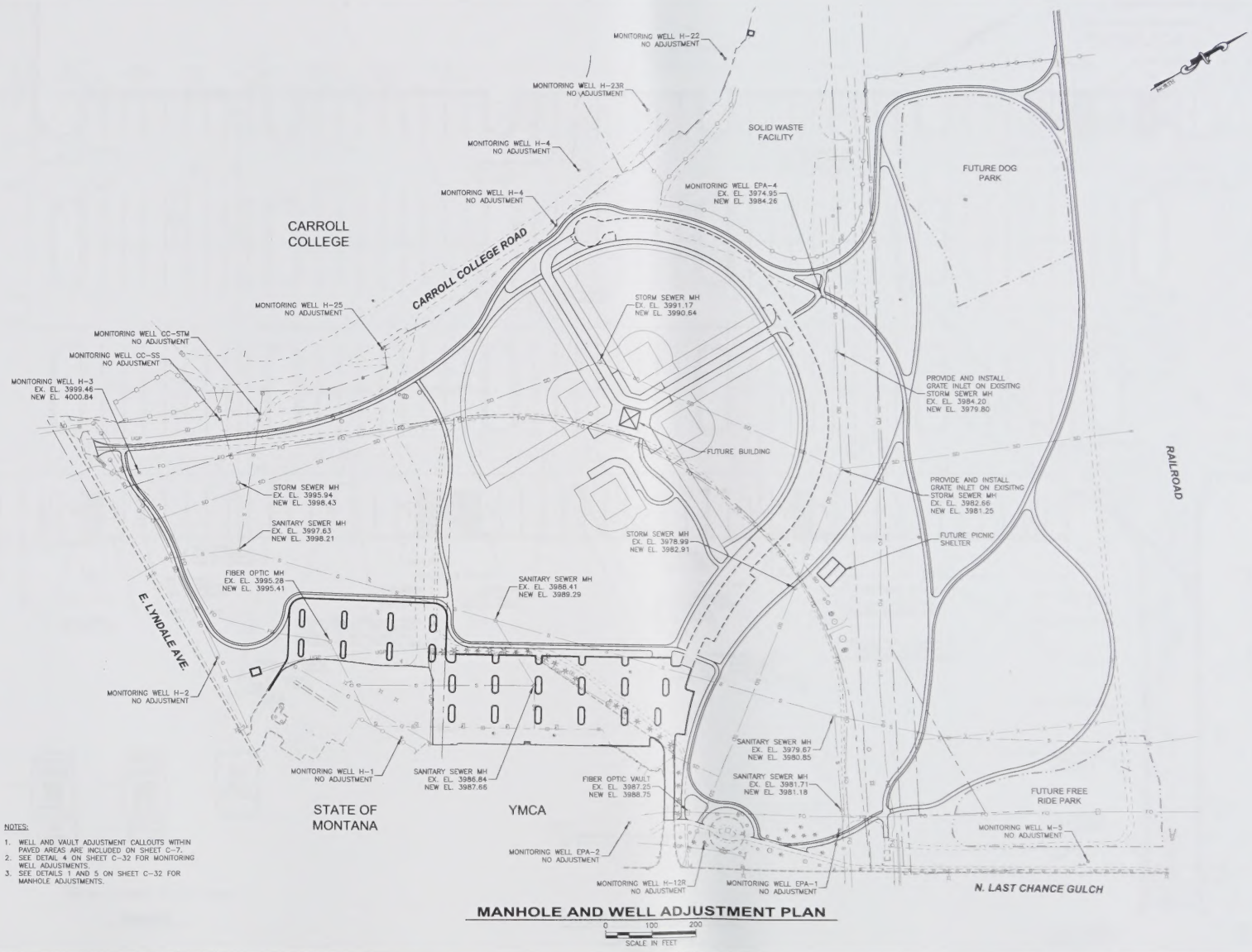


Centennial Park MANHOLE AND WELL ADJUSTMENT PLAN

CARL THUENSEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
102 GRAND AVE SUITE 100
P.O. BOX 22940
BILLINGS, MT 59108
406/232-5840 FAX 232-9805

Drawn by: BAA
Date: 2/1/02
Checked by: TRS
Date: 2/1/02
Rev: _____
Rev: _____
File: _____

SHEET
C-6



- NOTES:
1. WELL AND VAULT ADJUSTMENT CALLOUTS WITHIN PAVED AREAS ARE INCLUDED ON SHEET C-7.
 2. SEE DETAIL 4 ON SHEET C-32 FOR MONITORING WELL ADJUSTMENTS.
 3. SEE DETAILS 1 AND 5 ON SHEET C-32 FOR MANHOLE ADJUSTMENTS.

MANHOLE AND WELL ADJUSTMENT PLAN

0 100 200
SCALE IN FEET



Centennial Park
MANHOLE AND WELL
ADJUSTMENT PLAN

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1303 GRAND AVENUE, SUITE 100
P.O. BOX 22640
WILLINGS, MT 59108
406/251-5543 FAX 251-9855

Drawn by: EAA
Date: 2/1/12
Checked by: TNS
Date: 2/1/12
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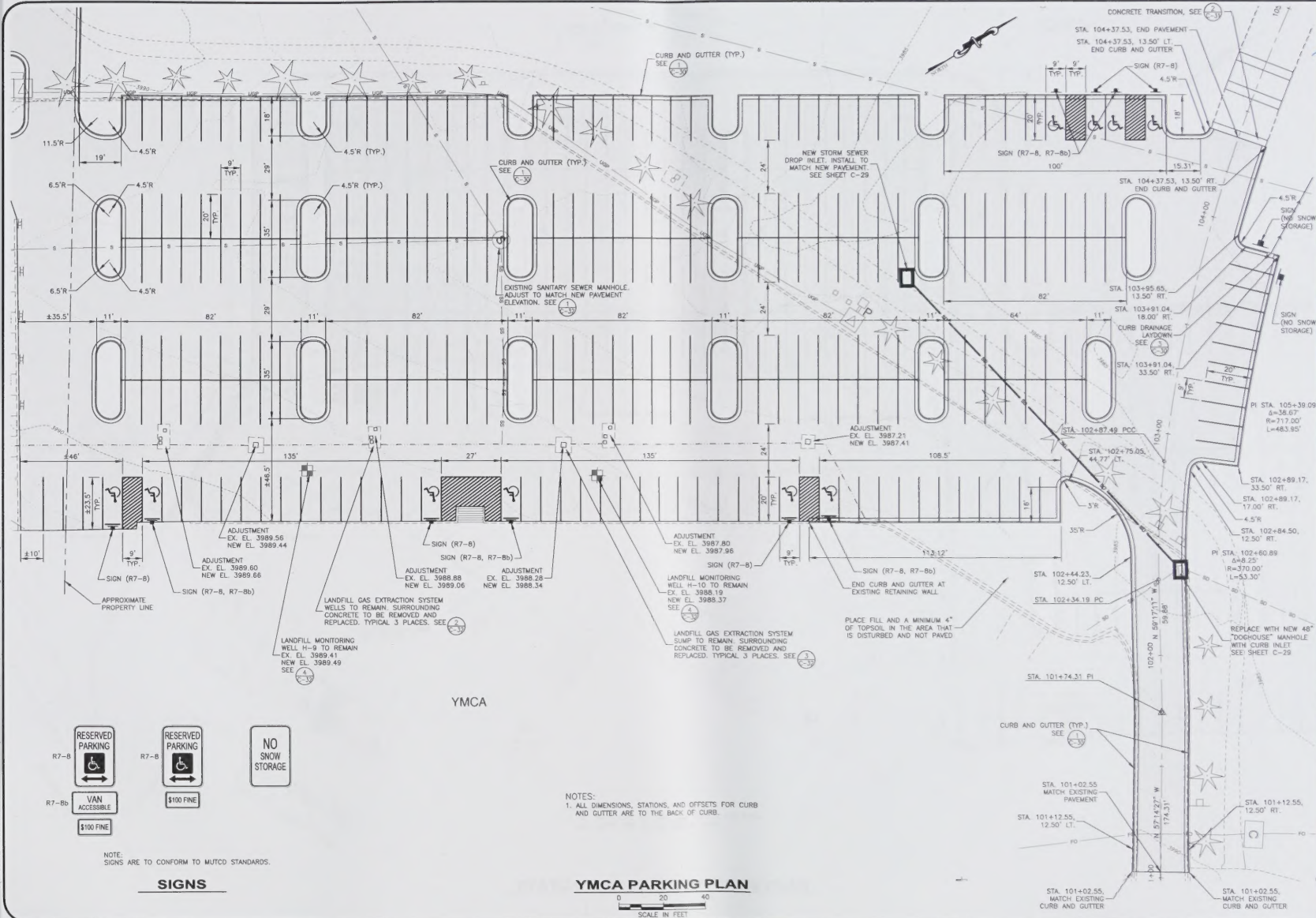
SHEET
C-6



- NOTES:
1. WELL AND VAULT ADJUSTMENT CALLOUTS WITHIN PAVED AREAS ARE INCLUDED ON SHEET C-7.
 2. SEE DETAIL 4 ON SHEET C-32 FOR MONITORING WELL ADJUSTMENTS.
 3. SEE DETAILS 1 AND 5 ON SHEET C-32 FOR MANHOLE ADJUSTMENTS.

MANHOLE AND WELL ADJUSTMENT PLAN

PLAN C-6 MANHOLE AND WELL ADJUSTMENT PLAN - 02/01/12 - 20' x 30' - 20' x 30'



Centennial Park
YMCA PARKING PLAN

CARL THUSEN
A S T A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1325 GRAND AVENUE SUITE 108
P.O. BOX 12249
BILLOING, MT 59608
406.255.5500 FAX 406.965.9605

Drawn by: **DAK**
Date: **2/1/20**
Checked by: **TRK**
Date: **2/1/20**
Rev: _____
File: _____

SHEET
C-7

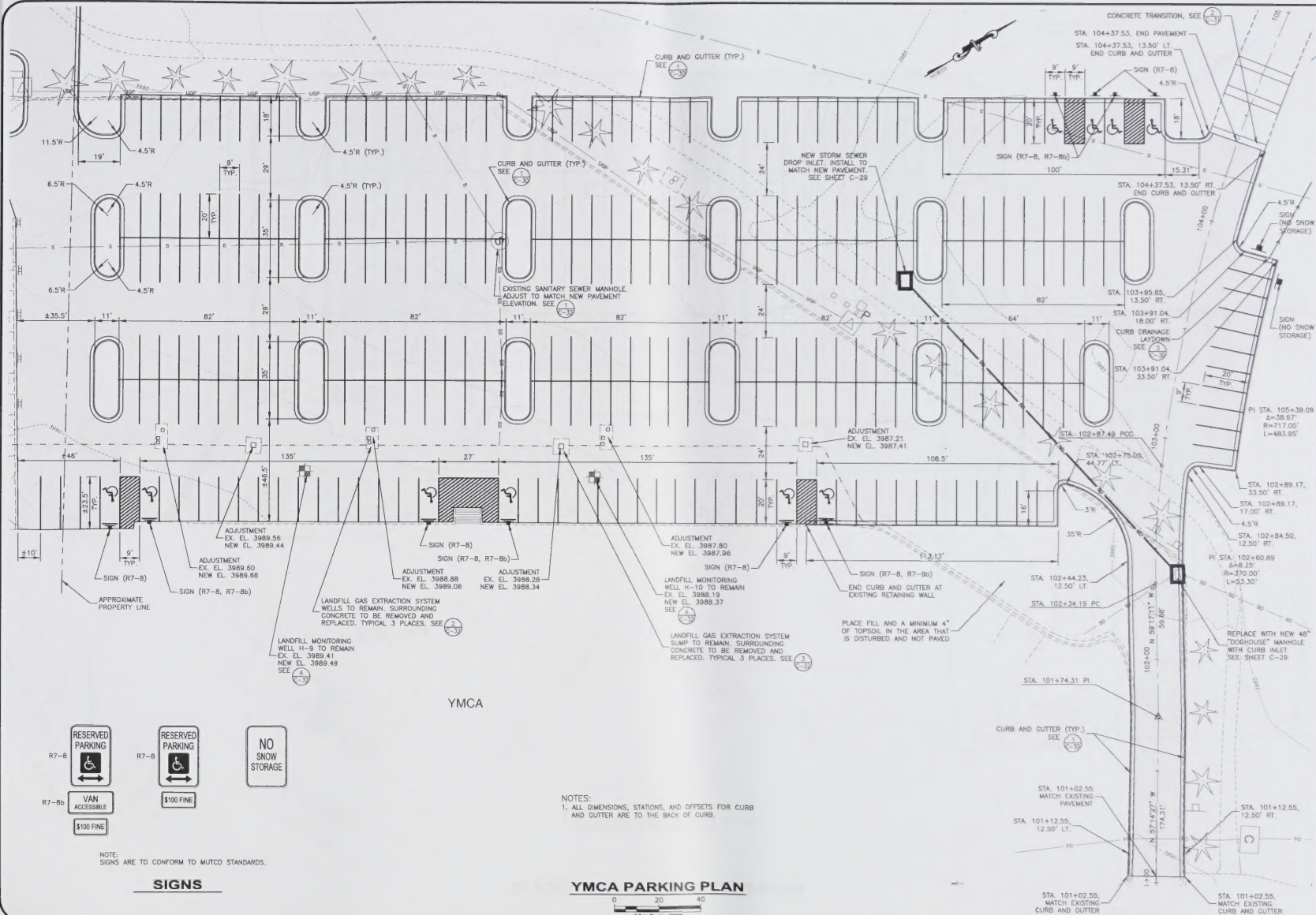


Centennial Park
YMCA PARKING PLAN

CARL THUESSEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1925 GRAND AVE. SUITE 105
P.O. BOX 22943
BILLINGS, MT 59104
406/252-3345 FAX 245-9855

Drawn by: BAA
Date: 2/1/10
Checked by: TRK
Date: 2/1/10
Rev: _____
Rev: _____
File: _____

SHEET
C-7

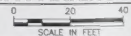


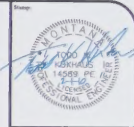
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NOTE:
SIGNS ARE TO CONFORM TO MUTCD STANDARDS

NOTES:
1. ALL DIMENSIONS, STATIONS, AND OFFSETS FOR CURB
AND GUTTER ARE TO THE BACK OF CURB.

YMCA PARKING PLAN



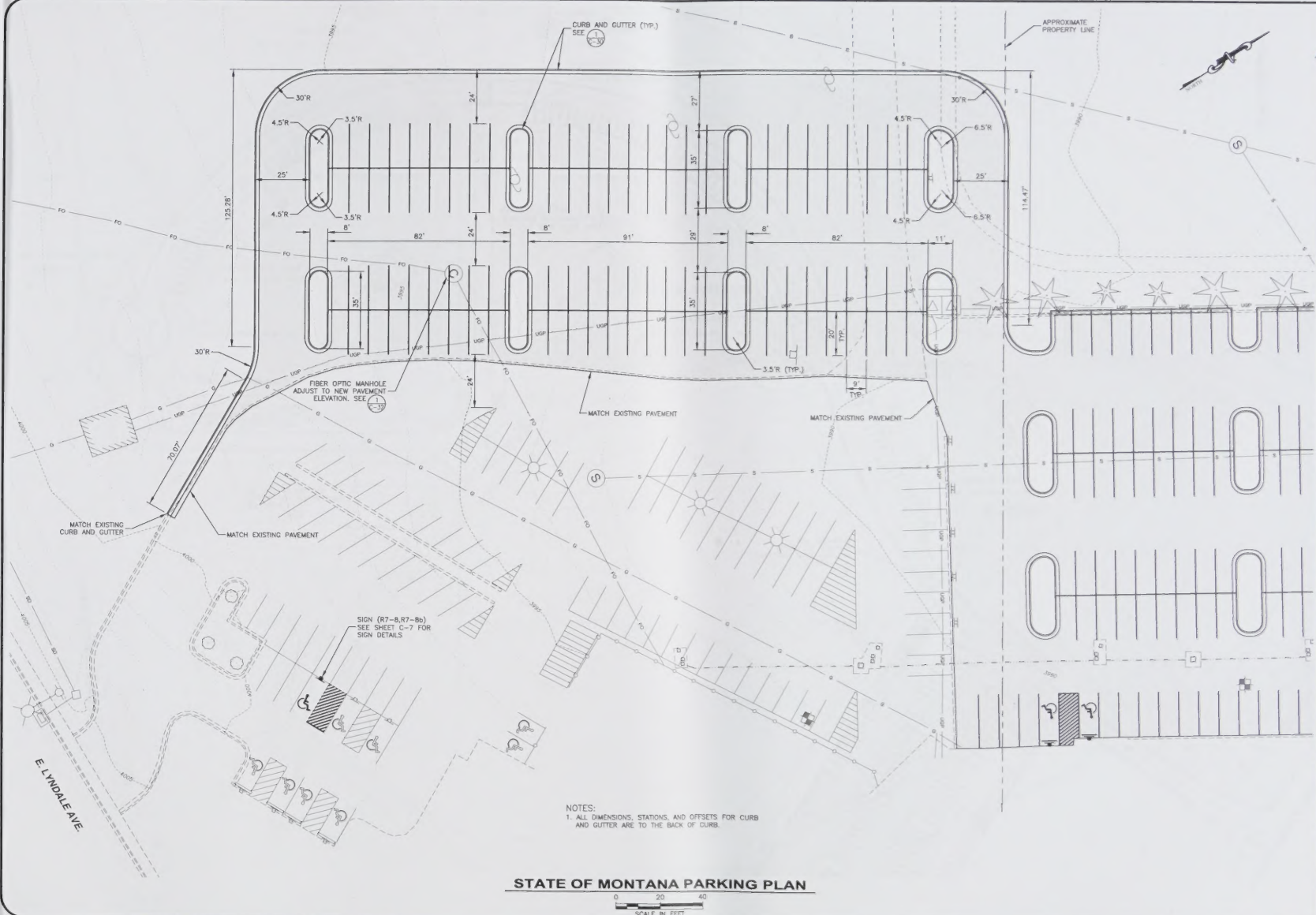


Centennial Park
STATE OF MONTANA
PARKING PLAN

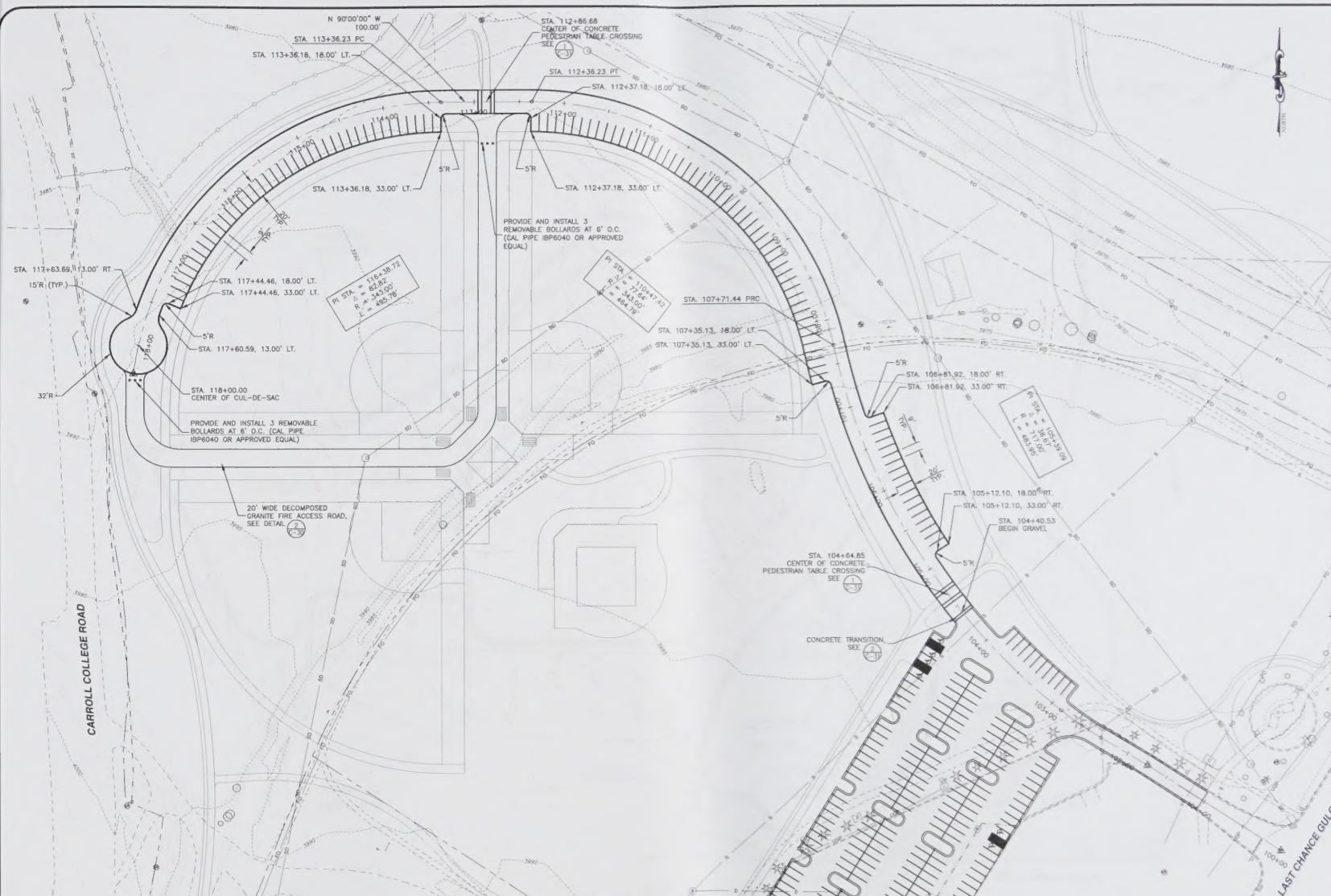
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GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1925 GRAND AVE. SUITE 105
P.O. BOX 22943
BILLINGS, MT 59104
406/252-5545 FAX 245-9855

Drawn by: DAA
Date: 2/1/10
Checked by: TKK
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Rev: _____
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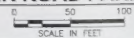
SHEET
C-8



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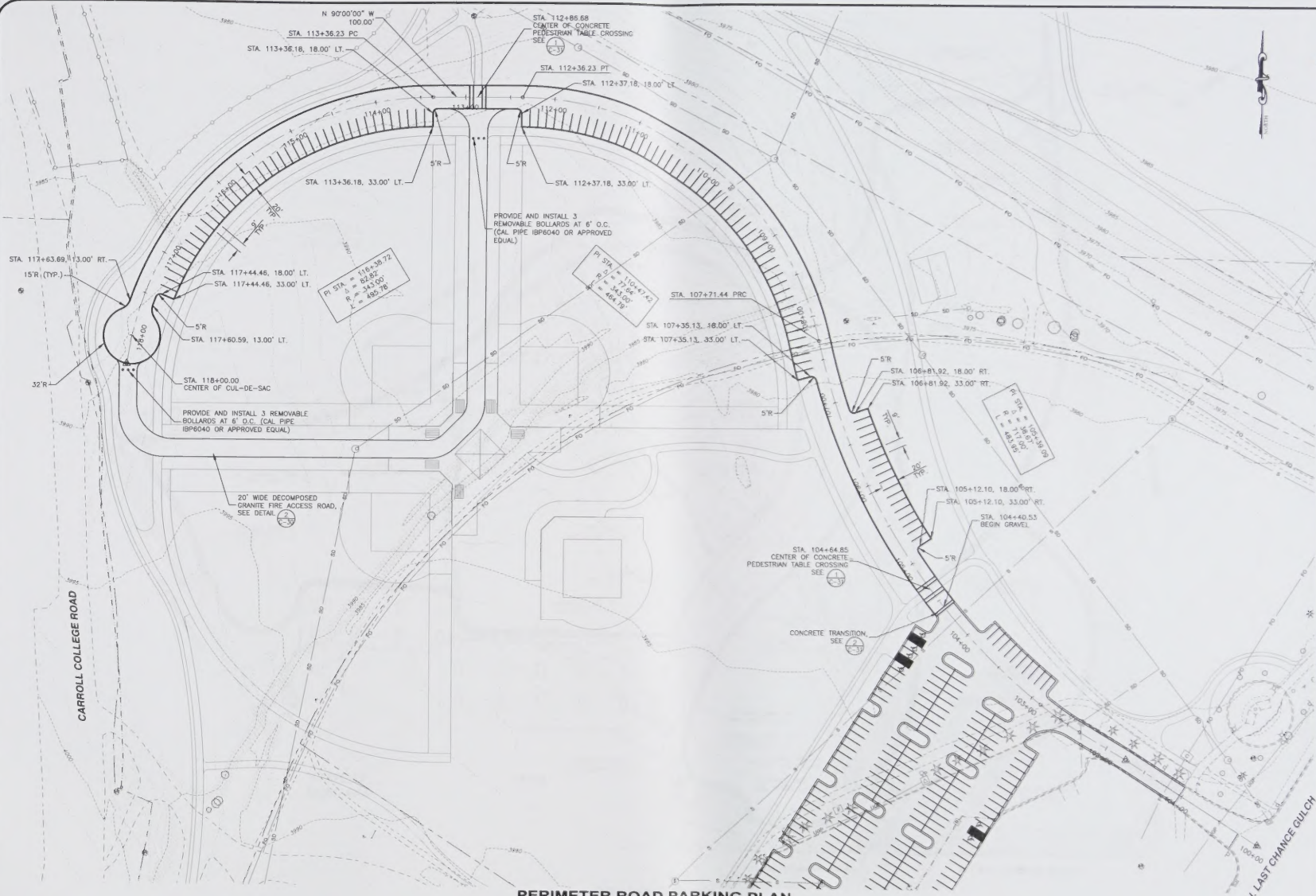
PERIMETER ROAD PARKING PLAN



Centennial Park PERIMETER ROAD PARKING PLAN

CARL THUESEN
A S E A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1925 GRAND AVE. SUITE 100
P.O. BOX 2840
BILLINGS, MT 59104
406/232-0545 FAX 245-9655

Drawn by: PAA
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Checked by: TKE
Date: 2/1/02
Rev: _____
Rev: _____
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PERIMETER ROAD PARKING PLAN

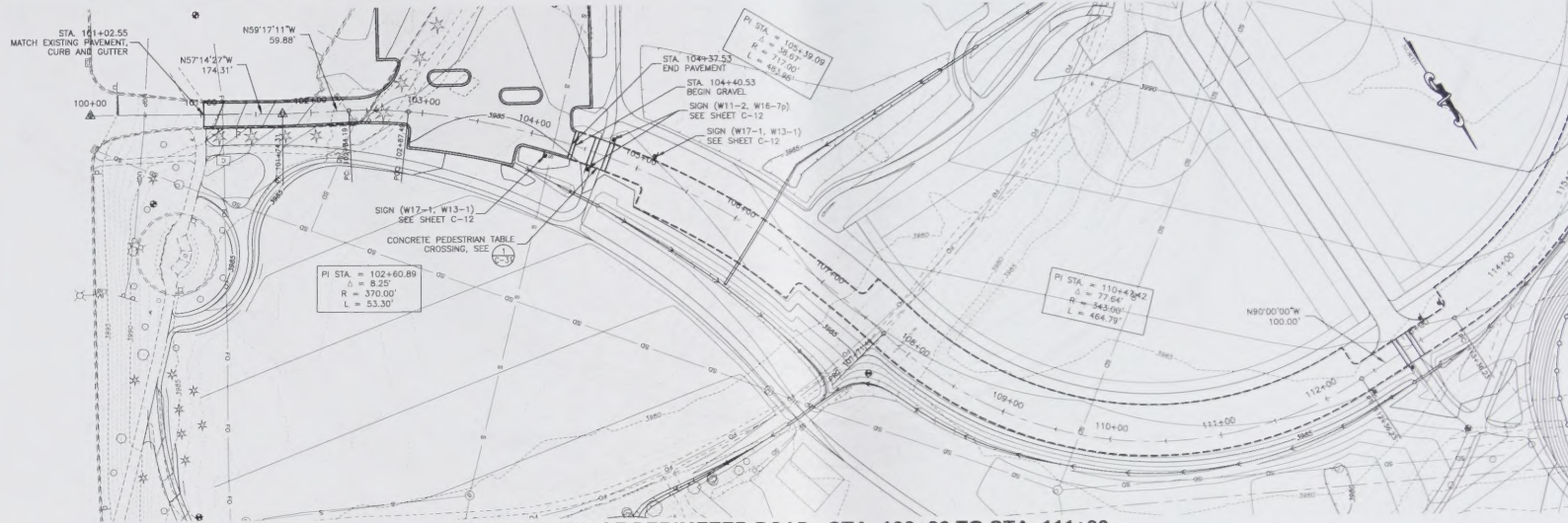
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Centennial Park PERIMETER ROAD PARKING PLAN

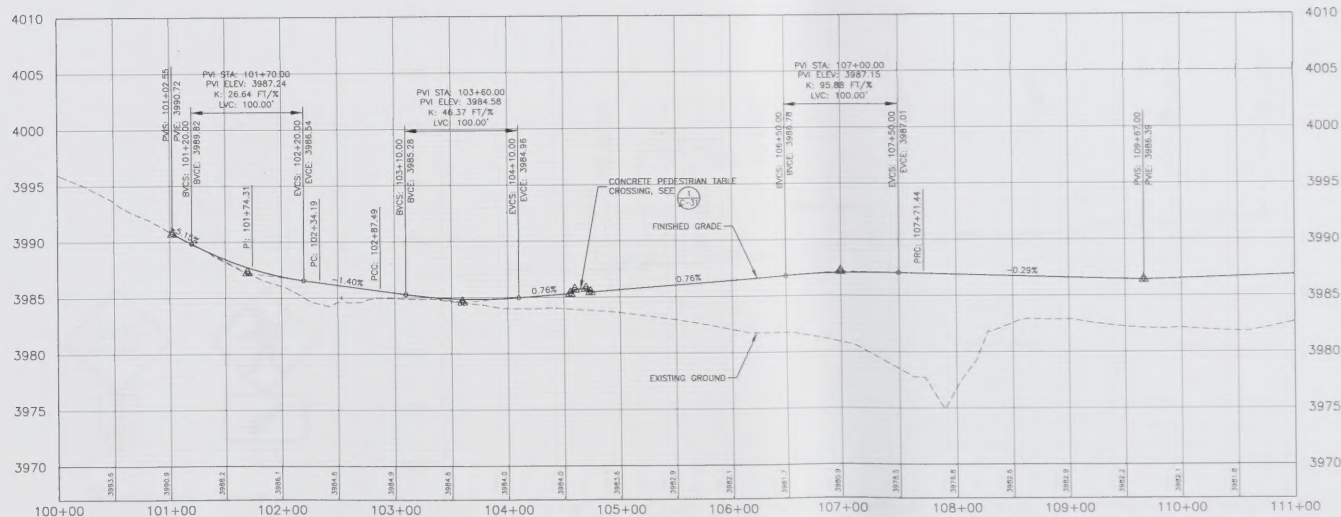
CARL THUESEN
A S I A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1001 GRAND AVE, SUITE 100
P.O. BOX 22903
BILLINGS, MT 59104
(406) 233-5545 FAX 233-9855

Drawn by: DMA
Date: 2/1/02
Checked by: TSC
Date: 2/1/02
Rev: _____
Rev: _____
File: _____



PLAN VIEW OF PERIMETER ROAD - STA. 100+00 TO STA. 111+00

0 50 100
SCALE IN FEET



PROFILE VIEW OF PERIMETER ROAD - STA. 100+00 TO STA. 111+00

HORIZONTAL SCALE: 0 50 100
SCALE IN FEET
VERTICAL SCALE: 0 5 10
SCALE IN FEET

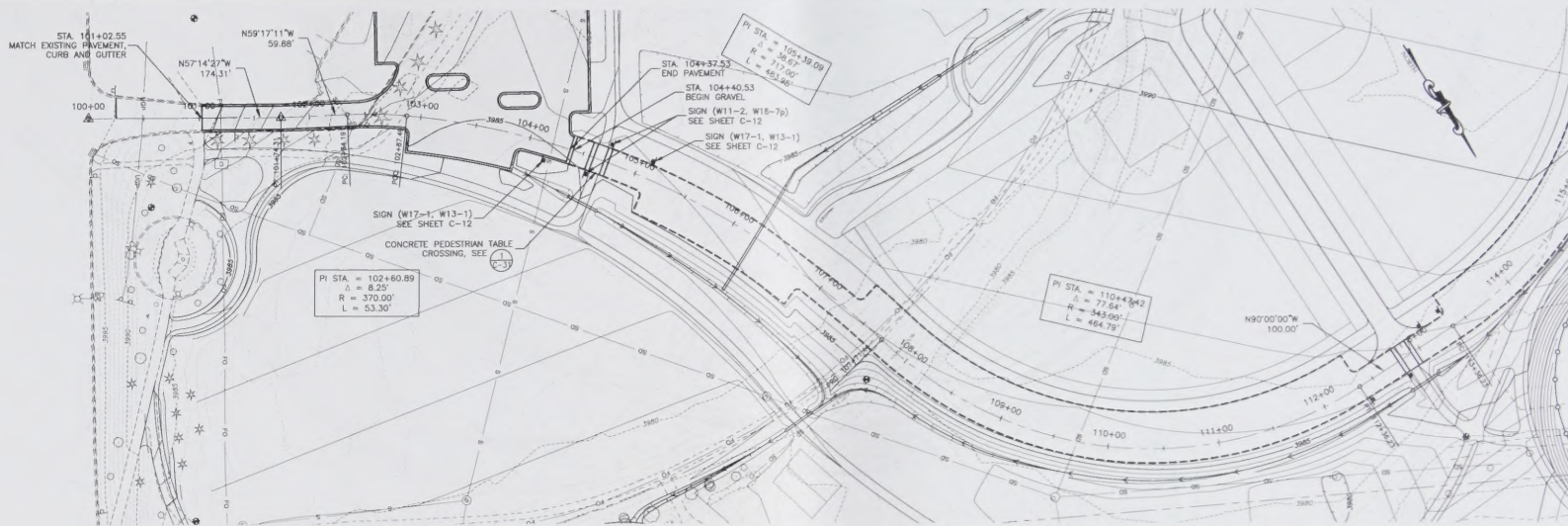


Centennial Park
PERIMETER ROAD
PLAN AND PROFILE

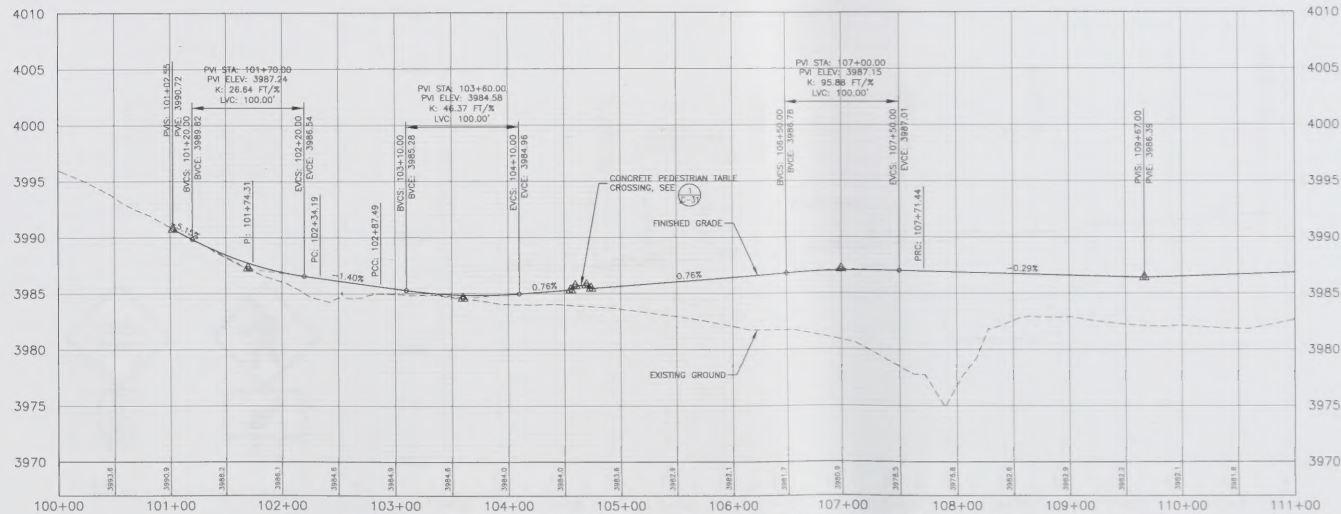
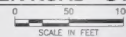
CARL THUSEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1925 GRAND AVENUE SUITE 108
P.O. BOX 2246
BILLINGS, MT 59104
601/252-5340 FAX 402-9607

Drawn by: EMA
Date: 2/1/02
Checked by: TSS
Date: 2/1/02
Rev: _____
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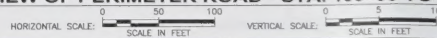
SHEET
C-11



PLAN VIEW OF PERIMETER ROAD - STA. 100+00 TO STA. 111+00



PROFILE VIEW OF PERIMETER ROAD - STA. 100+00 TO STA. 111+00

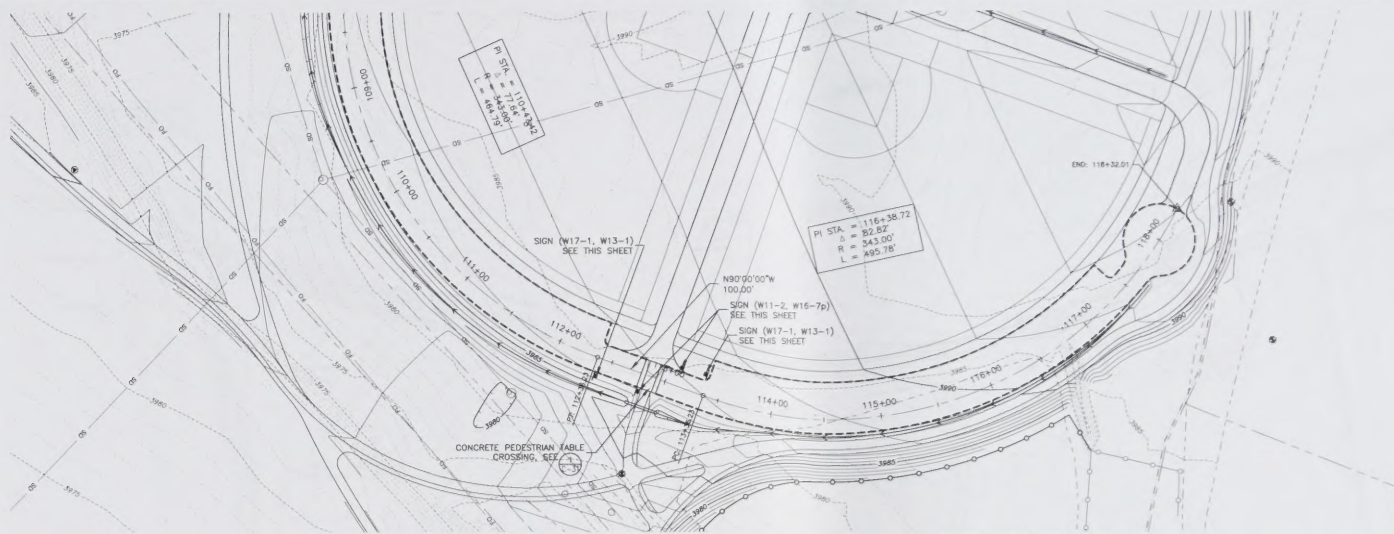


Centennial Park
PERIMETER ROAD
PLAN AND PROFILE

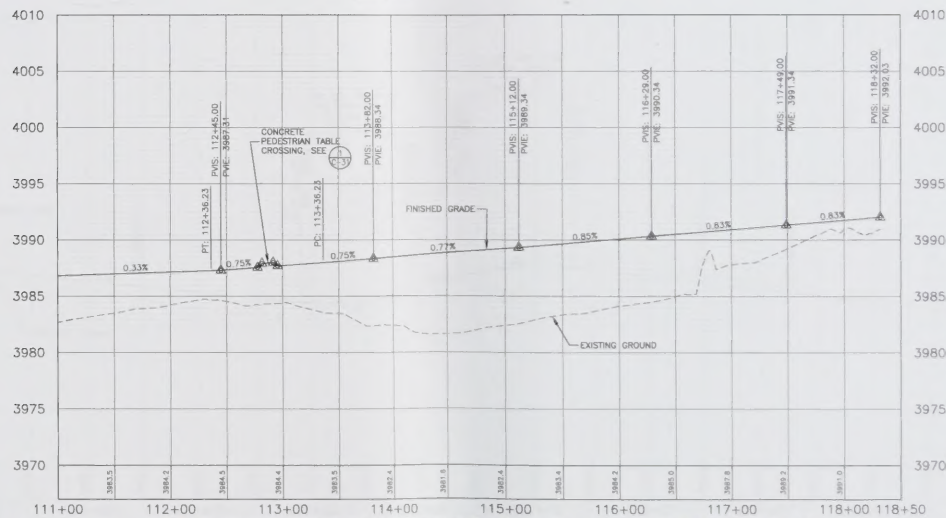
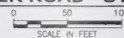
CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1925 GREENWAY, SUITE 105
P.O. BOX 22944
BILLINGS, MT 59104
406/232-5543 FAX 232-9805

Drawn by: BMA
Date: 2/1/10
Checked by: THK
Date: 2/1/10
Rev: _____
Rev: _____
File: _____

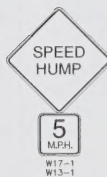
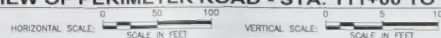
SHEET
C-11



PLAN VIEW OF PERIMETER ROAD - STA. 111+00 TO STA. 118+50



PROFILE VIEW OF PERIMETER ROAD - STA. 111+00 TO STA. 118+50



NOTE: SIGNS ARE TO CONFORM TO MUTCD STANDARDS.

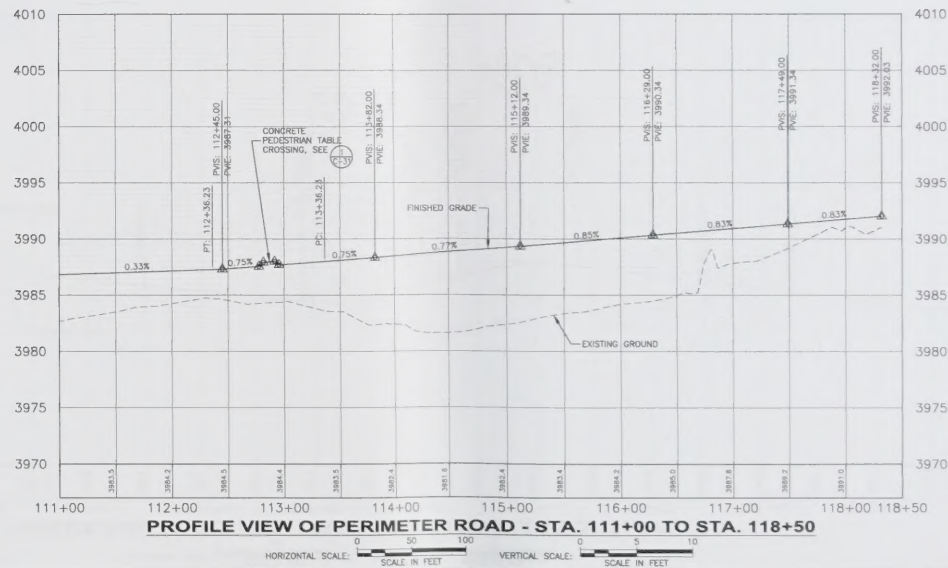
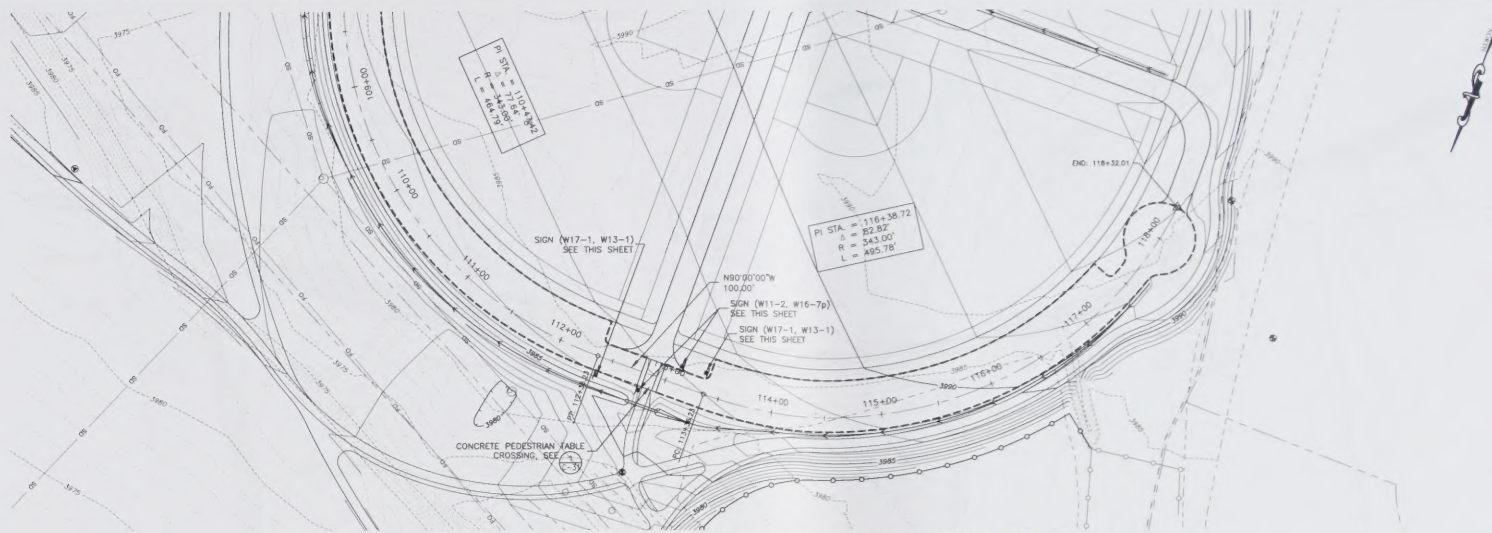
SIGNS



Centennial Park PERIMETER ROAD PLAN AND PROFILE

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
193 GRAND AVE. SUITE 105
P.O. BOX 12940
BILLINGS, MT 59104
406/252-5545 FAX 252-9855

Drawn by: PAA
Date: 2/1/02
Checked by: THS
Date: 2/1/02
Rev: _____
File: _____



W13-1



NOTE:
SIGNS ARE TO CONFORM TO MUTCD STANDARDS

SIGNS



Centennial Park
PERIMETER ROAD
PLAN AND PROFILE

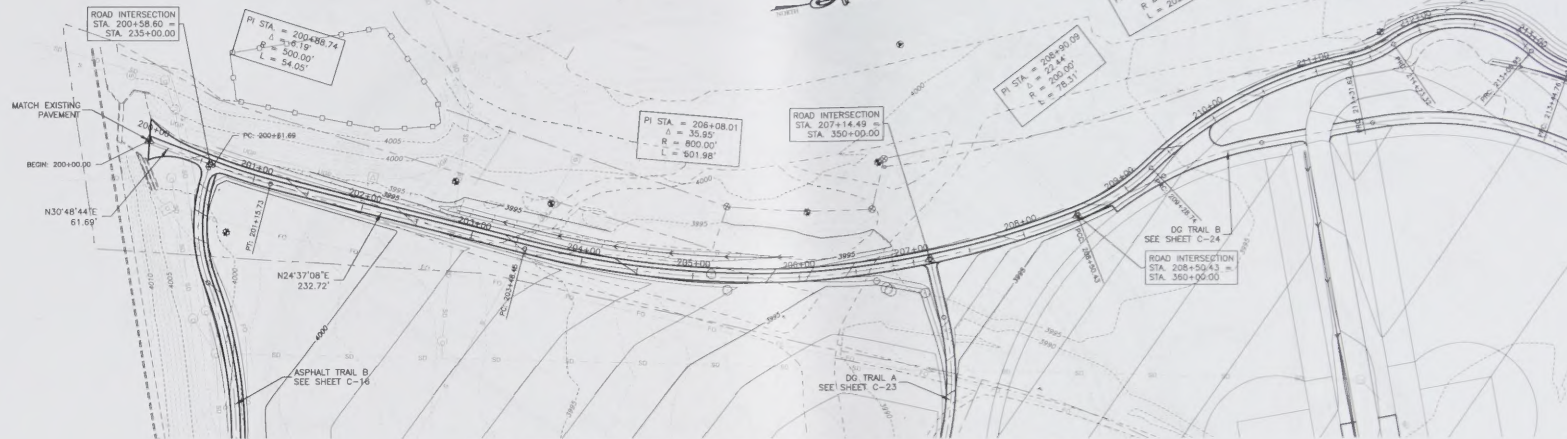
CARL THUESEN
A S L A

**GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE**

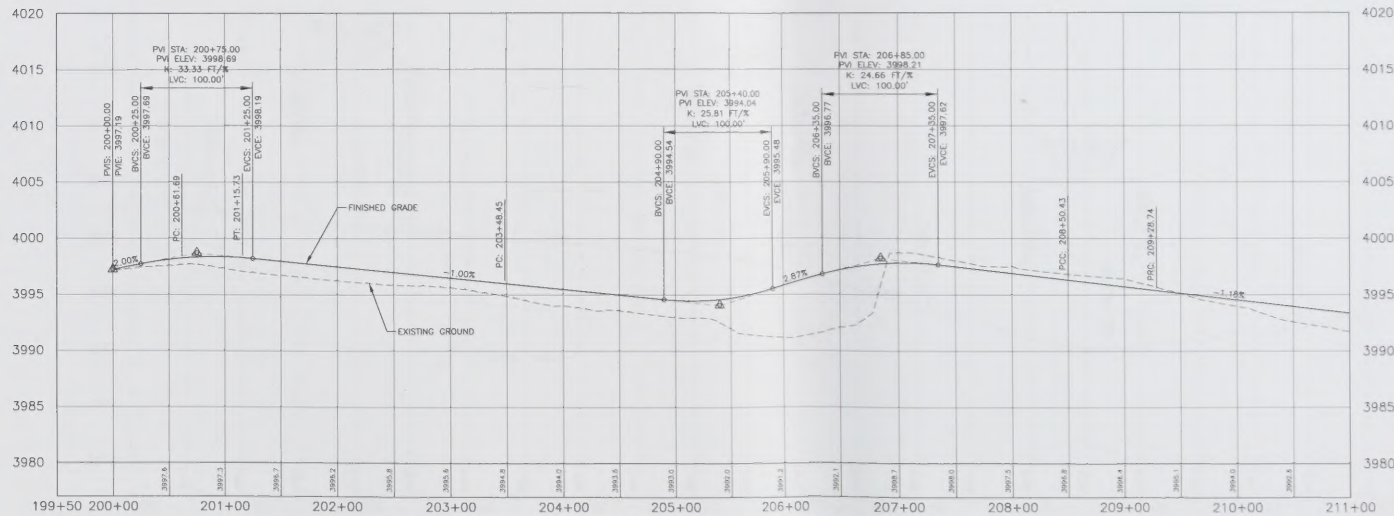
**1925 GRAND AVE. SUITE 105
P.O. BOX 22943
BILLINGS, MT 59104
406/252-5545 FAX 245-9655**

Drawn by: BAA
 Date: 2/1/10
 Checked by: TKK
 Date: 2/1/10
 Rev: _____
 Rev: _____
 File: _____

SHEET
C-12



PLAN VIEW OF ASPHALT TRAIL A - STA. 199+50 TO STA. 211+00



PROFILE VIEW OF ASPHALT TRAIL A - STA. 199+50 TO STA. 211+00

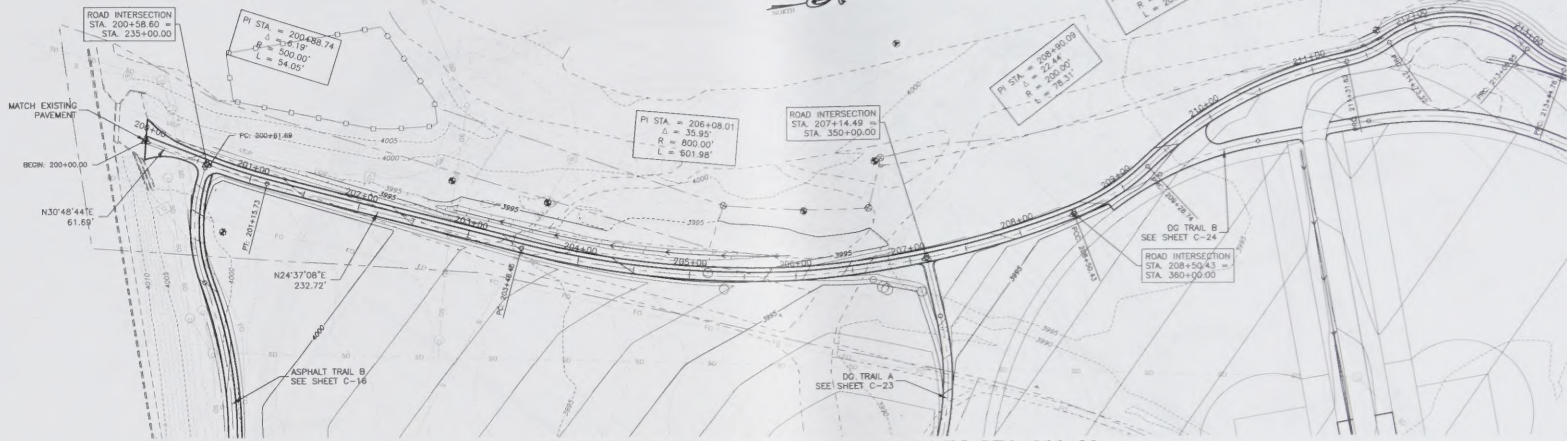
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VERTICAL SCALE: 0 5 10 SCALE IN FEET



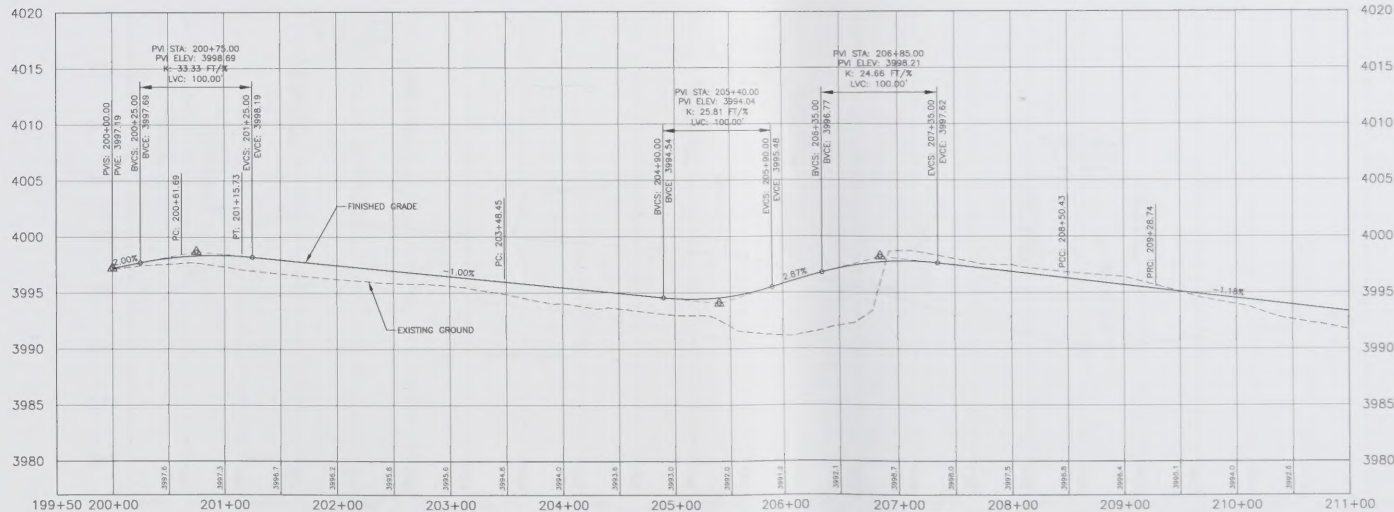
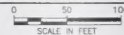
Centennial Park ASPHALT TRAIL A PLAN AND PROFILE

CARL THUESEN
A S I A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1025 GRAND AVE. SUITE 100
P.O. BOX 12943
BIRMINGHAM, AL 35212
205-988-1111 FAX 205-988-1112

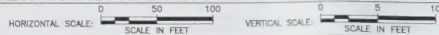
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Date: 2/1/02
Checked by: TKS
Date: 2/1/02
Rev: _____
Rev: _____
File: _____



PLAN VIEW OF ASPHALT TRAIL A - STA. 199+50 TO STA. 211+00



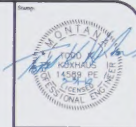
PROFILE VIEW OF ASPHALT TRAIL A - STA. 199+50 TO STA. 211+00



Centennial Park ASPHALT TRAIL A PLAN AND PROFILE

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
103 GRAND AVE. SUITE 100
P.O. BOX 22943
BILLINGS, MT 59101
406/233-5540 FAX 406/245-9055

Drawn by: BAA
Date: 2/1/10
Checked by: TKS
Date: 2/1/10
Rev: _____
File: _____

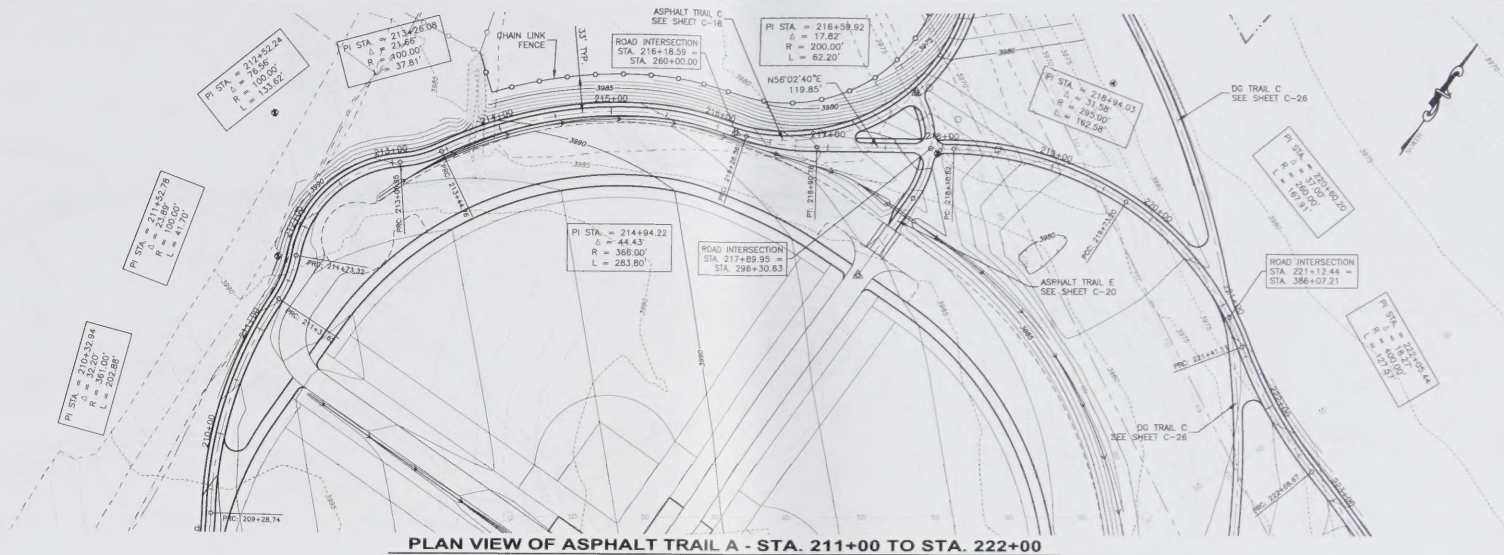


Centennial Park ASPHALT TRAIL A PLAN AND PROFILE

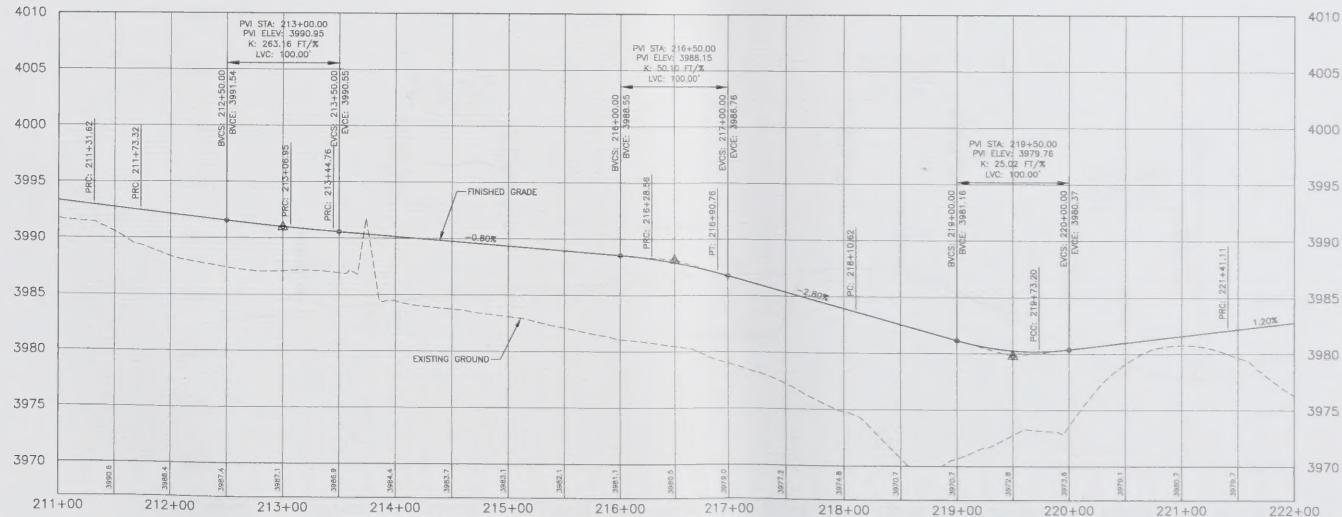
CARL THUSEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1025 GRAND AVE. SUITE 100
P.O. BOX 2940
HELENA, MT 59608
406/252-5545 FAX 252-9855

Drawn by: DMA
Date: 2/1/10
Checked by: TRG
Date: 2/1/10
Rev: _____
Rev: _____
File: _____

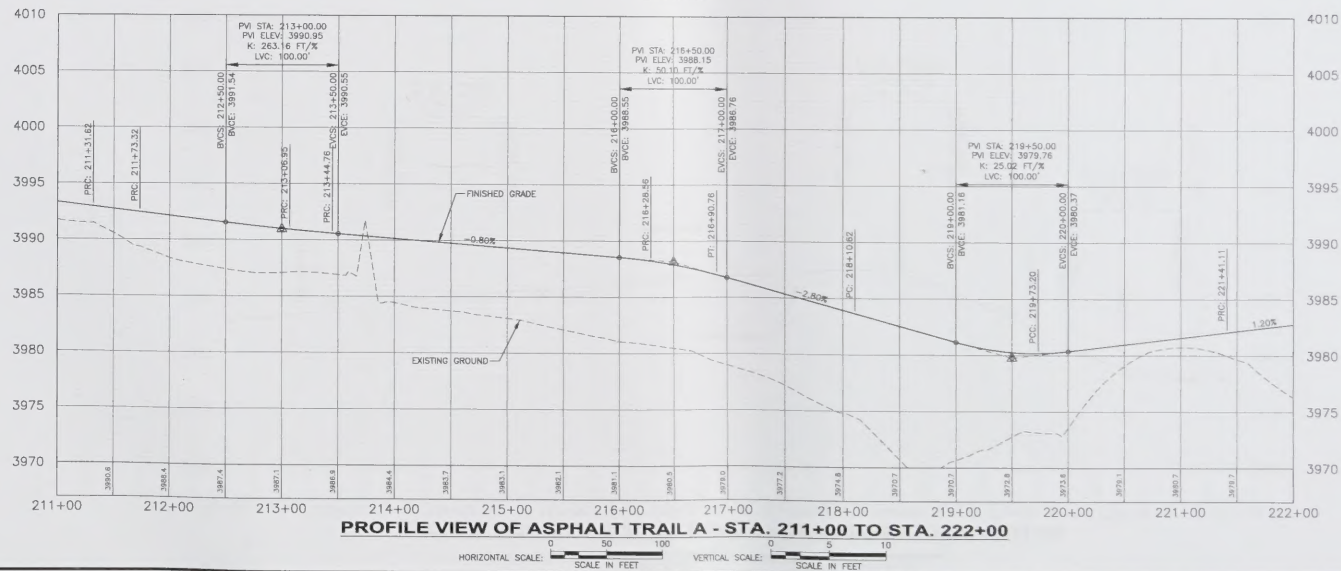
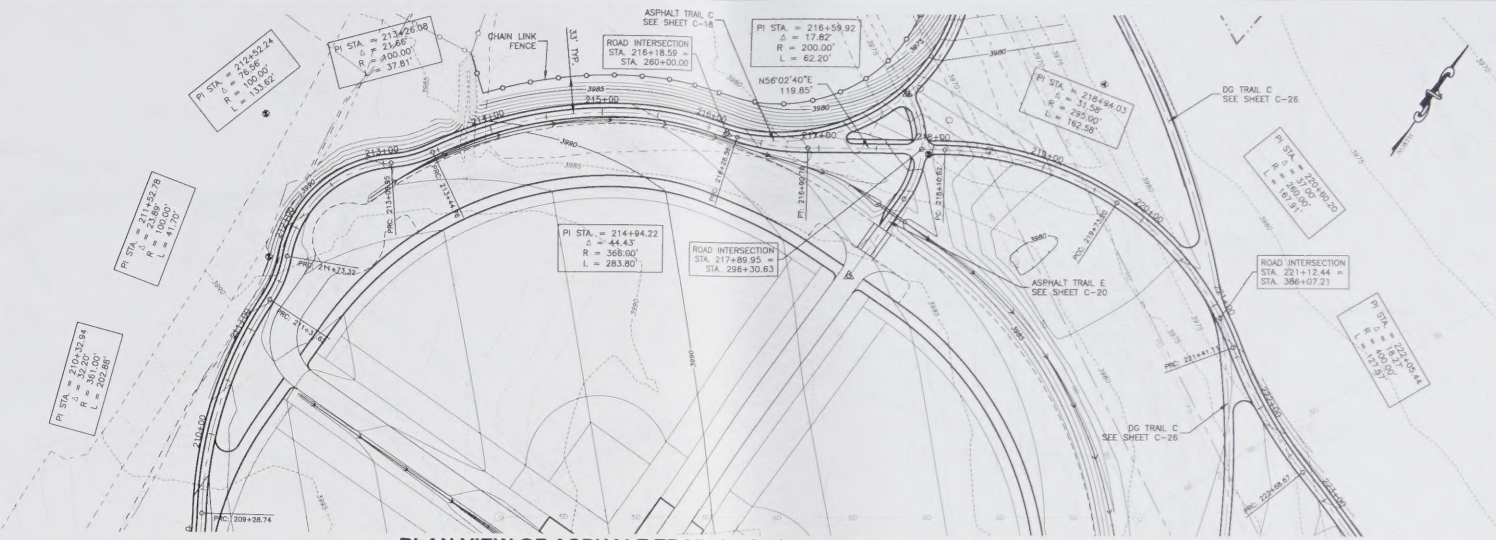
SHEET
C-14



PLAN VIEW OF ASPHALT TRAIL A - STA. 211+00 TO STA. 222+00



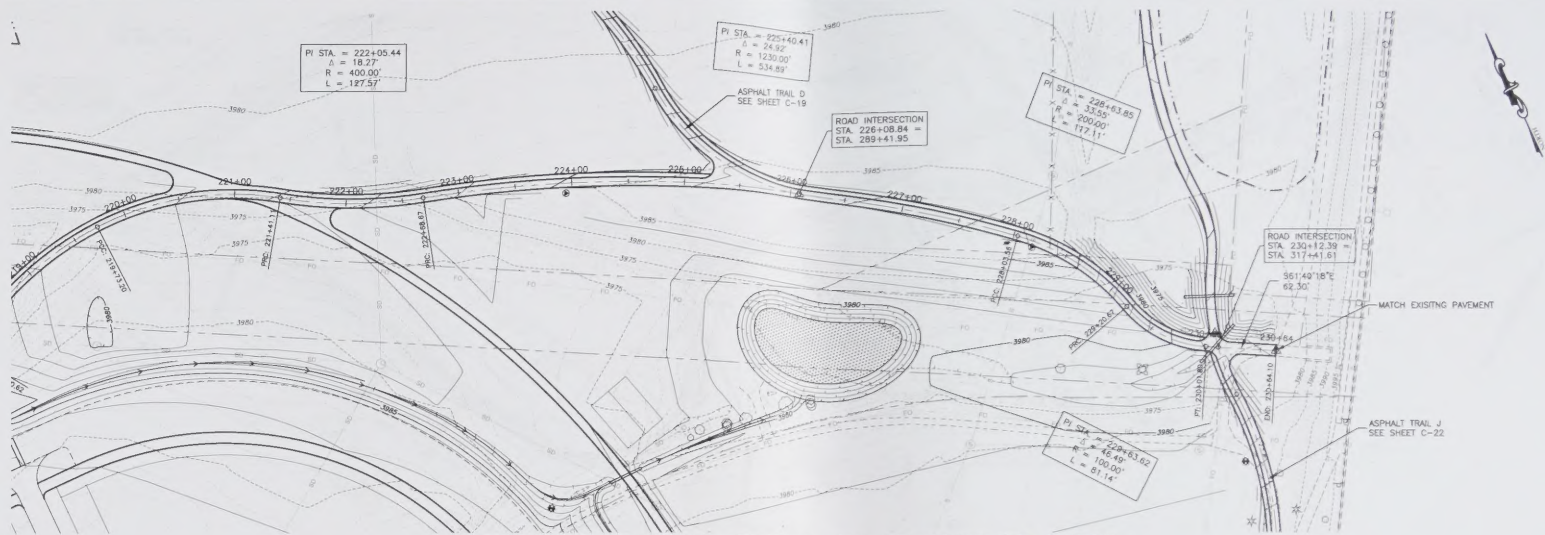
PROFILE VIEW OF ASPHALT TRAIL A - STA. 211+00 TO STA. 222+00



Centennial Park ASPHALT TRAIL A PLAN AND PROFILE

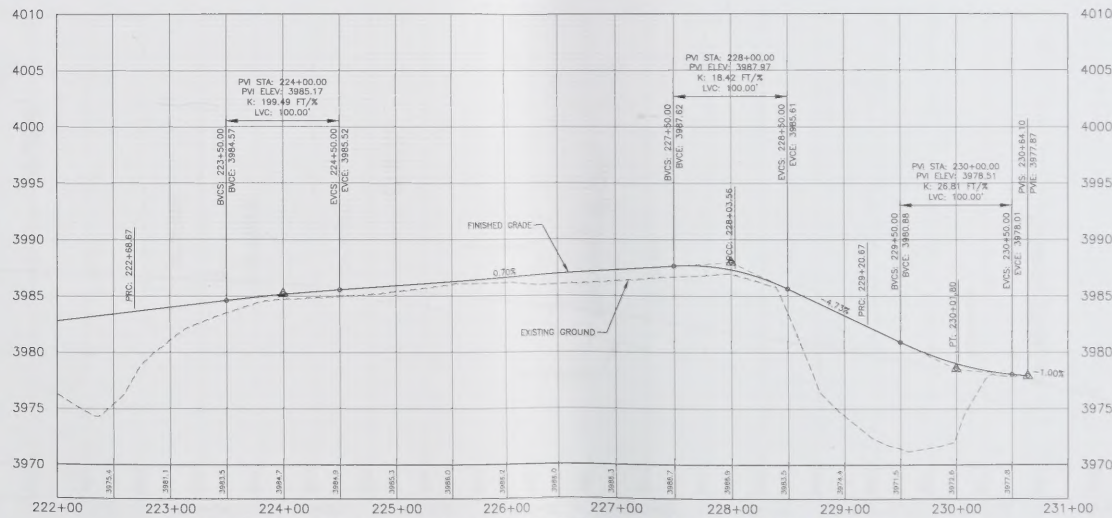
CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1915 GRAND AVE. SUITE 100
P.O. BOX 12943
BIRMINGHAM, AL 35214
404/253-5545 FAX 253-9835

Drawn by: BAA
Date: 2/1/00
Checked by: TRK
Date: 2/1/00
Rev:
File:



PLAN VIEW OF ASPHALT TRAIL A - STA. 222+00 TO STA. 231+00

SCALE IN FEET
0 50 100



PROFILE VIEW OF ASPHALT TRAIL A - STA. 222+00 TO STA. 231+00

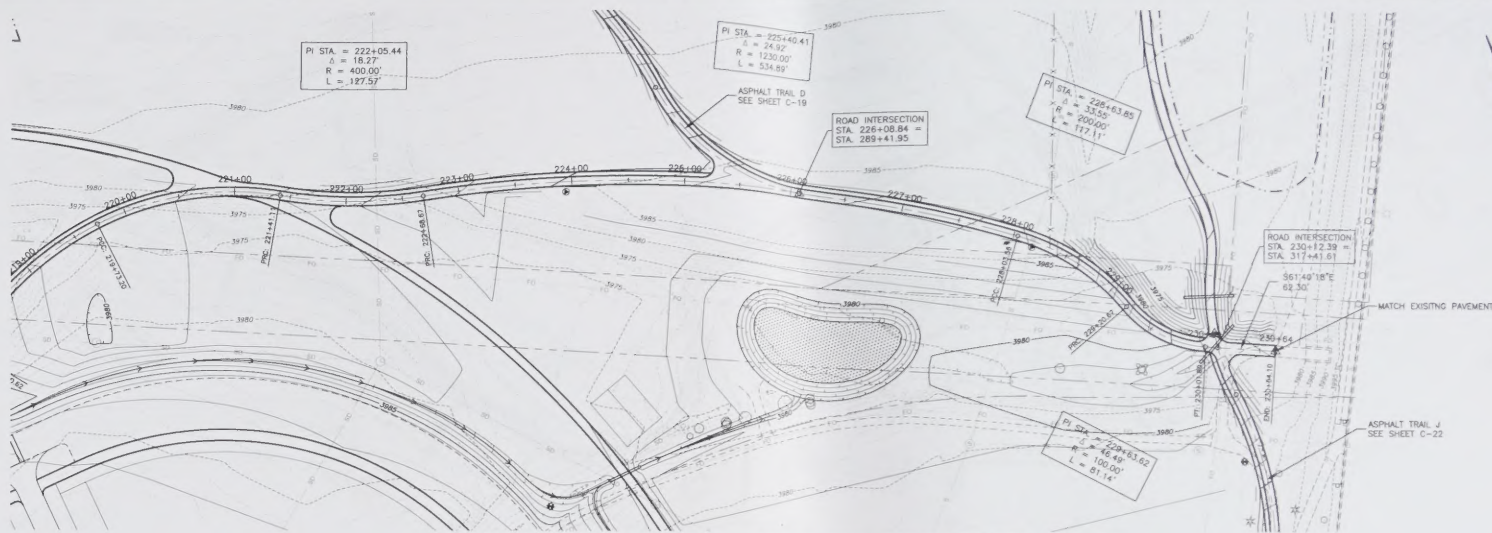
HORIZONTAL SCALE: 0 50 100
SCALE IN FEET
VERTICAL SCALE: 0 5 10
SCALE IN FEET



Centennial Park ASPHALT TRAIL A PLAN AND PROFILE

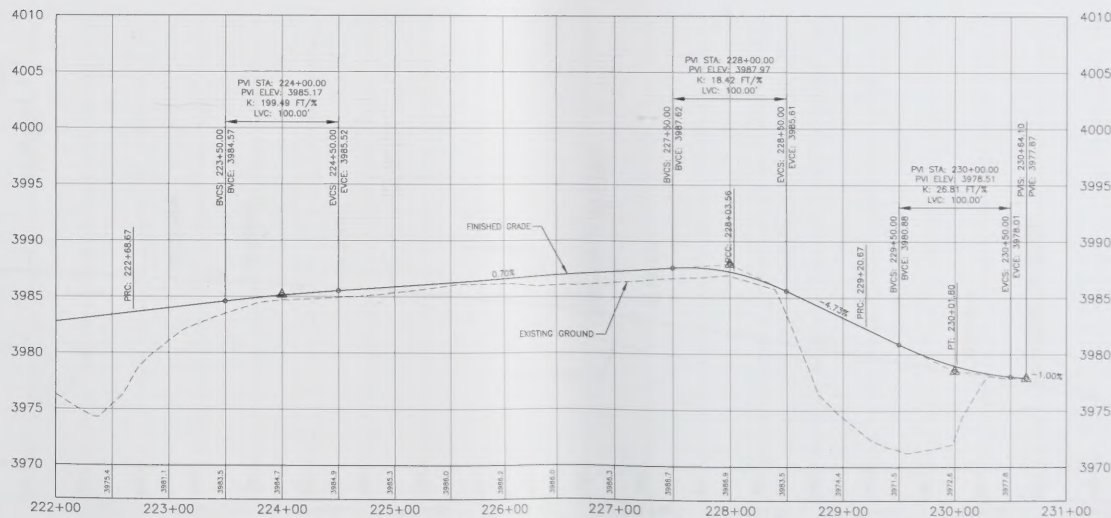
CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1925 GRAND AVENUE, SUITE 105
P.O. BOX 22940
BILLINGS, MONTANA 59106
406/232-5545 FAX 232-9855

Drawn by: DMA
Date: 3/1/02
Checked by: TRG
Date: 3/1/02
Rev: _____
Rev: _____
File: _____



PLAN VIEW OF ASPHALT TRAIL A - STA. 222+00 TO STA. 231+00

0 50 100
SCALE IN FEET



PROFILE VIEW OF ASPHALT TRAIL A - STA. 222+00 TO STA. 231+00

HORIZONTAL SCALE: 0 50 100
SCALE IN FEET

VERTICAL SCALE: 0 5 10
SCALE IN FEET

Centennial Park
ASPHALT TRAIL A
PLAN AND PROFILE

CARL THUESEN
A S L A

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE

1945 GRAND AVE. SUITE 100
P.O. BOX 25040
BILLYING, MT 59104
406/232-3040 FAX 245-9855

Drawn by: PAA

Date: 2/1/10

Checked by: THK

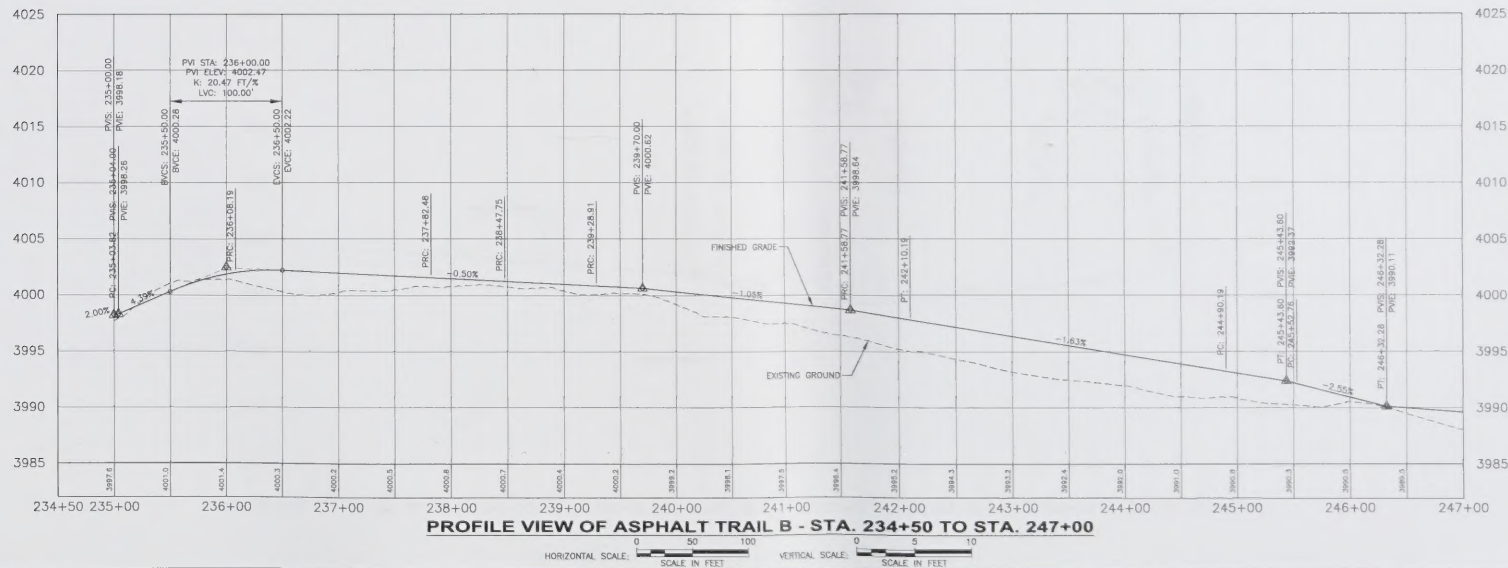
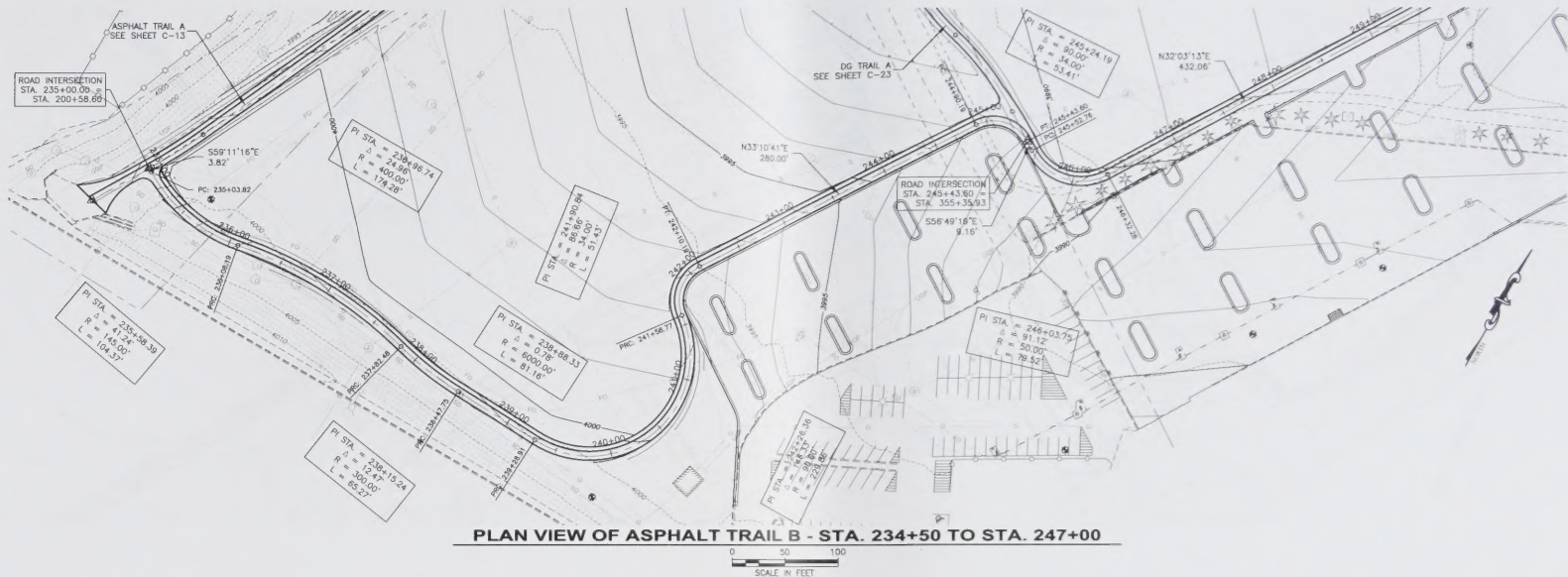
Date: 2/1/10

Rev:

File:

SHEET

C-15



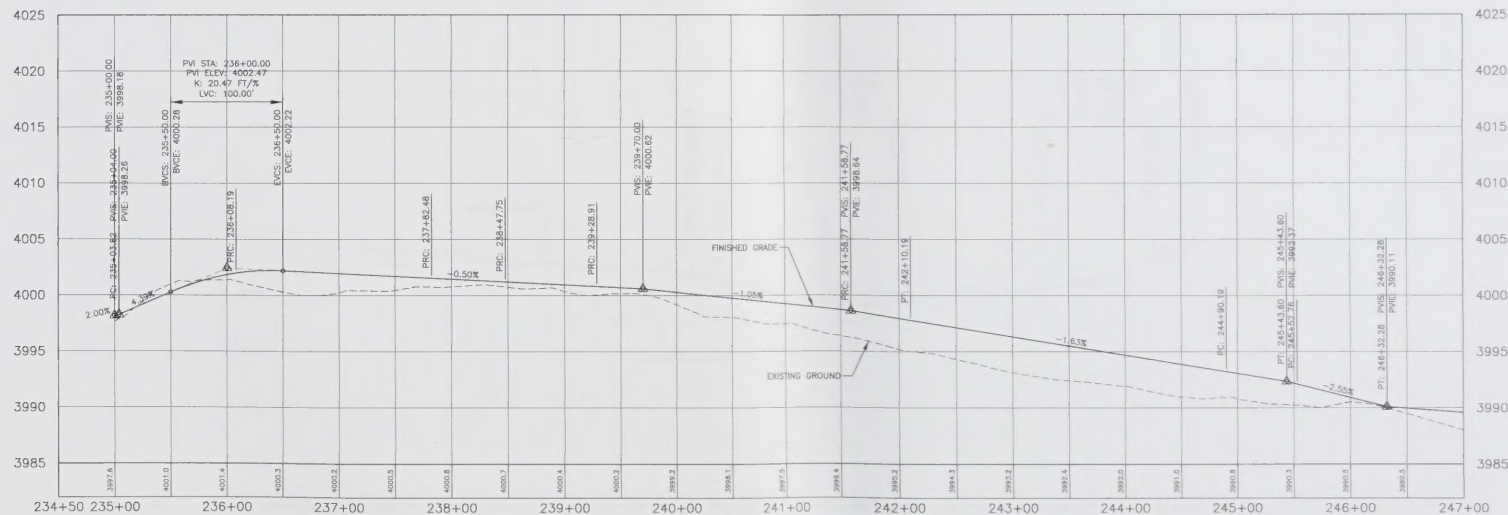
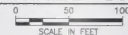
Centennial Park
ASPHALT TRAIL B
PLAN AND PROFILE

CARL THUESEN
A S L A
 GOLF COURSE ARCHITECTURE
 LANDSCAPE ARCHITECTURE
 193 GRAND AVE. SUITE 100
 P.O. BOX 23943
 BELLEVILLE, NJ 07003
 609/252-5543 FAX 245-9855

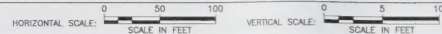
Drawn by: MA
 Date: 2/1/10
 Checked by: TKP
 Date: 2/1/10
 Rev: _____
 Rev: _____
 File: _____



PLAN VIEW OF ASPHALT TRAIL B - STA. 234+50 TO STA. 247+00



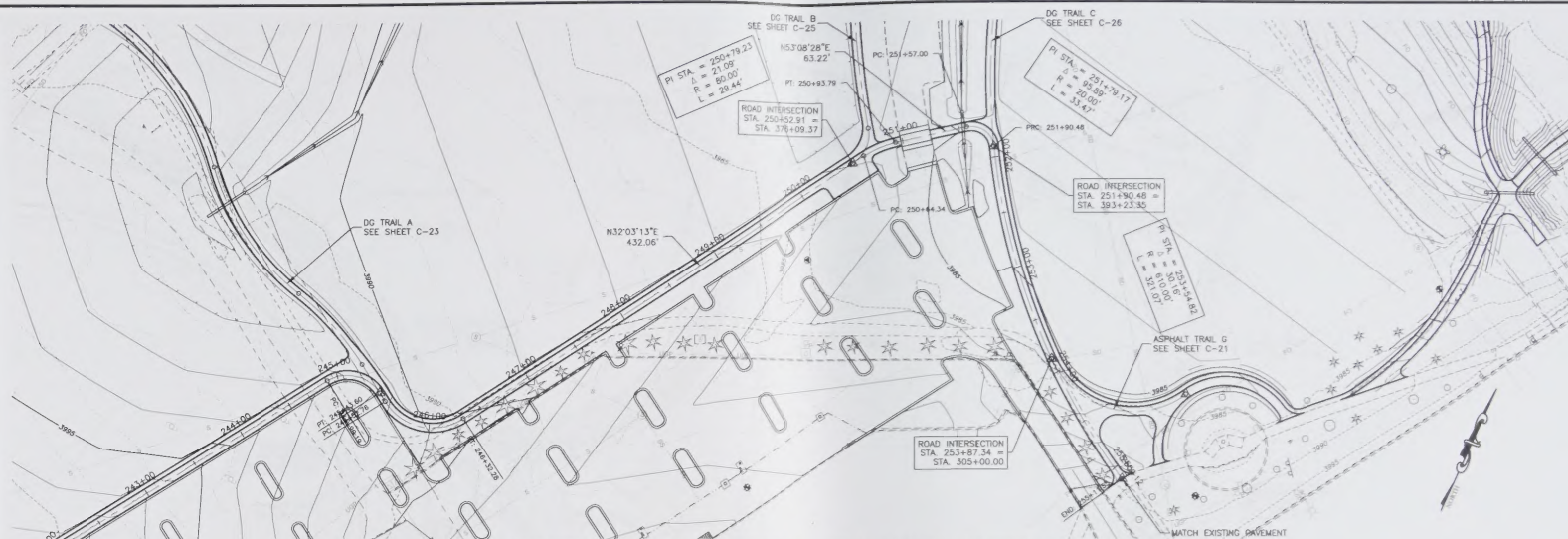
PROFILE VIEW OF ASPHALT TRAIL B - STA. 234+50 TO STA. 247+00



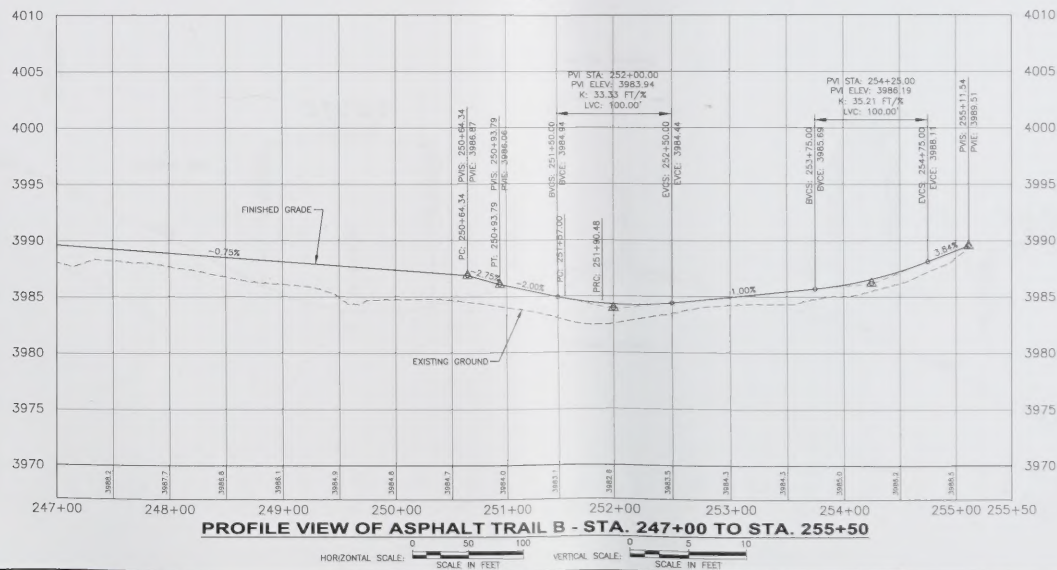
Centennial Park
ASPHALT TRAIL B
PLAN AND PROFILE



Drawn by: PAA
 Date: 2/1/10
 Checked by: TRC
 Date: 2/1/10
 Rev: _____
 File: _____



PLAN VIEW OF ASPHALT TRAIL B - STA. 247+00 TO STA. 255+50



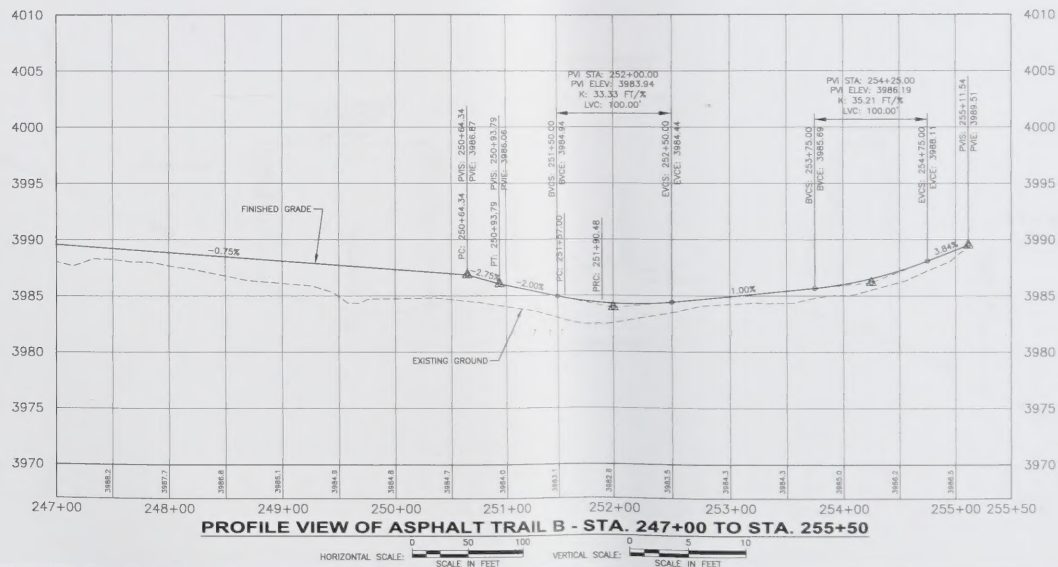
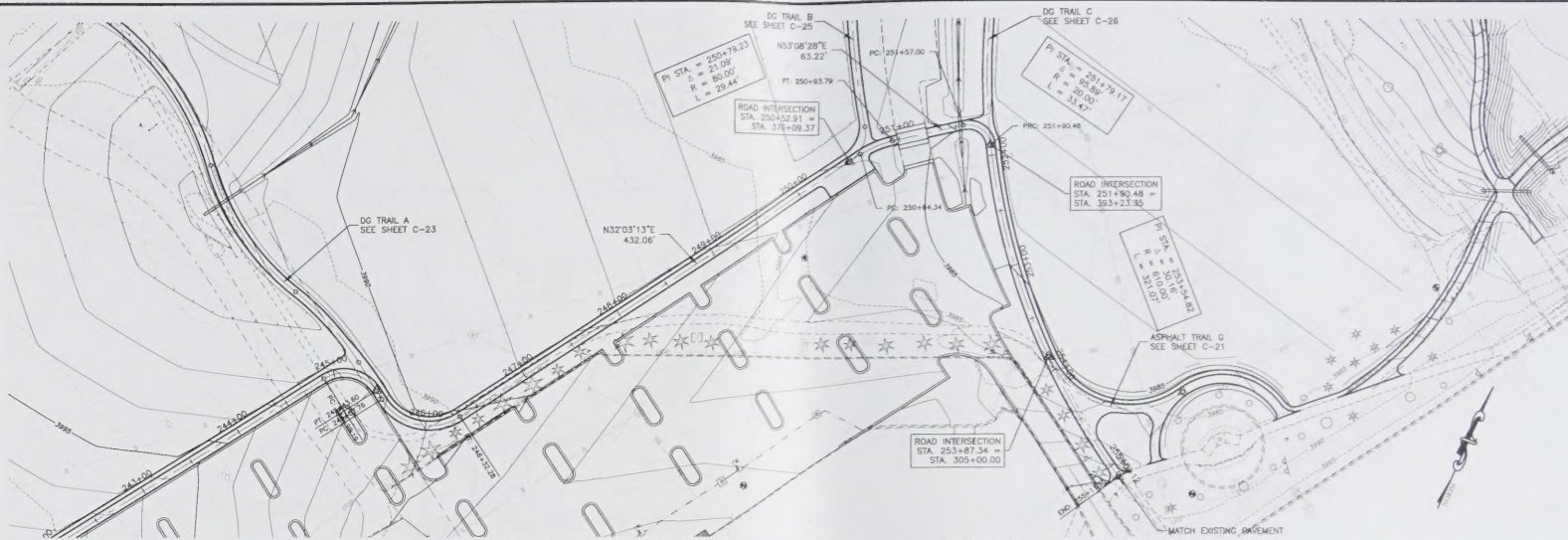
PROFILE VIEW OF ASPHALT TRAIL B - STA. 247+00 TO STA. 255+50



Centennial Park
ASPHALT TRAIL B
PLAN AND PROFILE

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
3925 GRAND AVE SUITE 105
P.O. BOX 22945
BILLINGS, MT 59104
406/253-3347 FAX 253-9855

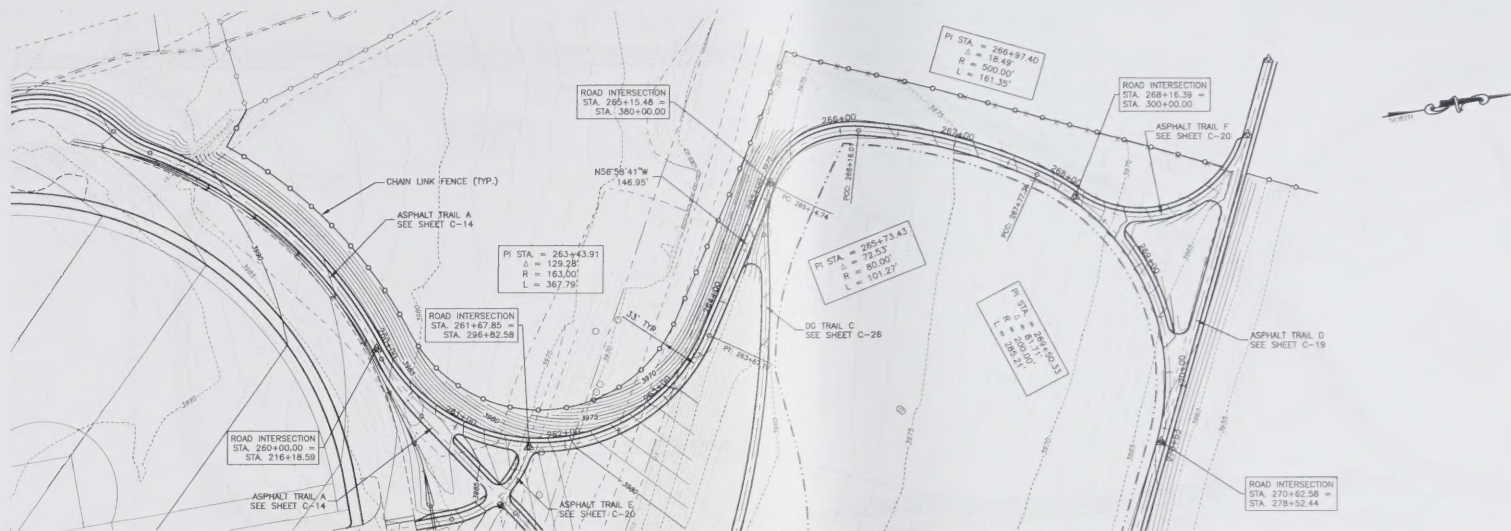
Drawn by: BAA
Date: 2/1/02
Checked by: THC
Date: 2/1/02
Rev: _____
File: _____



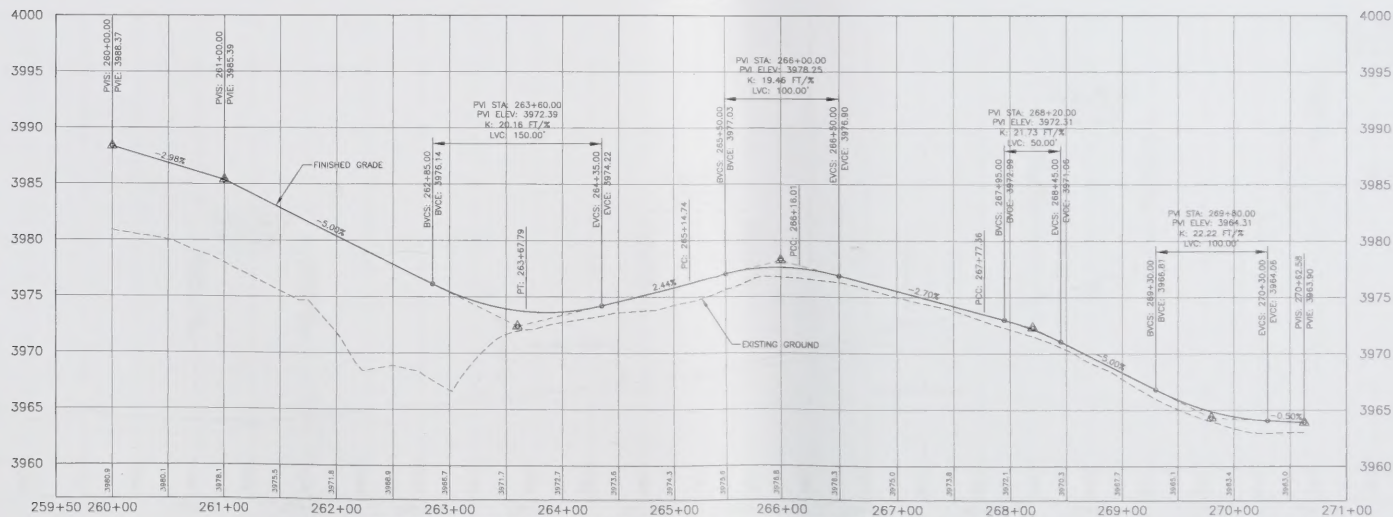
Centennial Park ASPHALT TRAIL B PLAN AND PROFILE

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1925 GRAND AVE. SUITE 105
P.O. BOX 2940
BELLINGHAM, MT 59904
800/252-5545 FAX 245-9805

Drawn by: DAA
Date: 2/1/10
Checked by: TKK
Date: 2/1/10
Rev: _____
Rev: _____
File: _____



PLAN VIEW OF ASPHALT TRAIL C - STA. 259+50 TO STA. 271+00



PROFILE VIEW OF ASPHALT TRAIL C - STA. 259+50 TO STA. 271+00

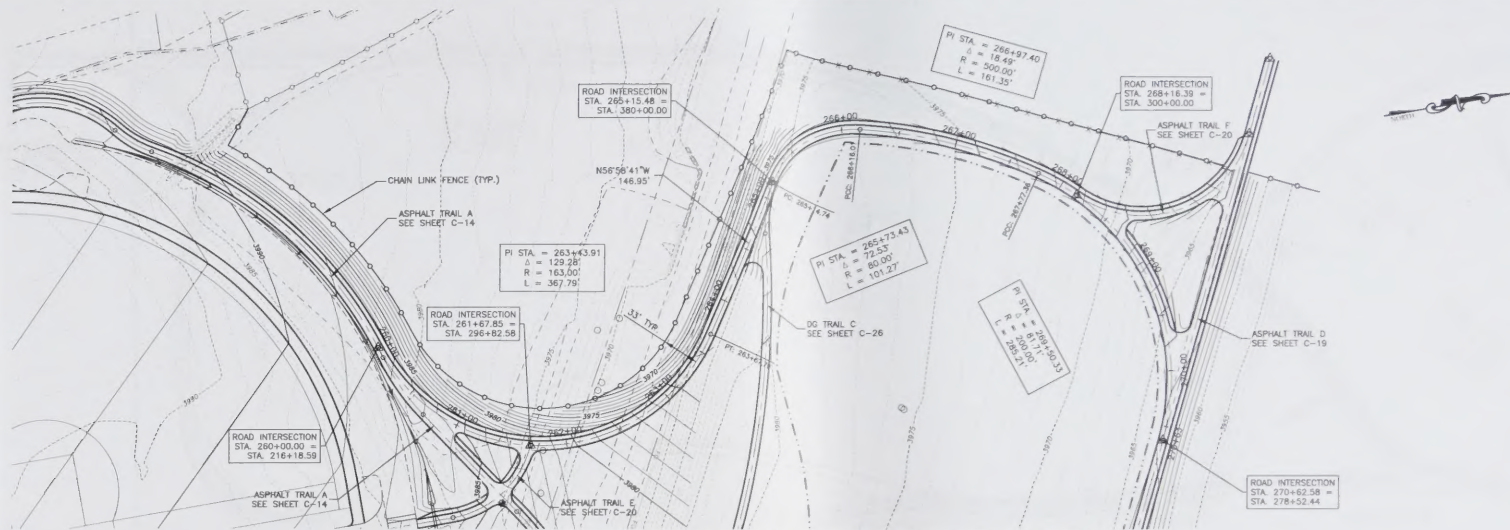
HORIZONTAL SCALE: 0 50 100 SCALE IN FEET
VERTICAL SCALE: 0 5 10 SCALE IN FEET



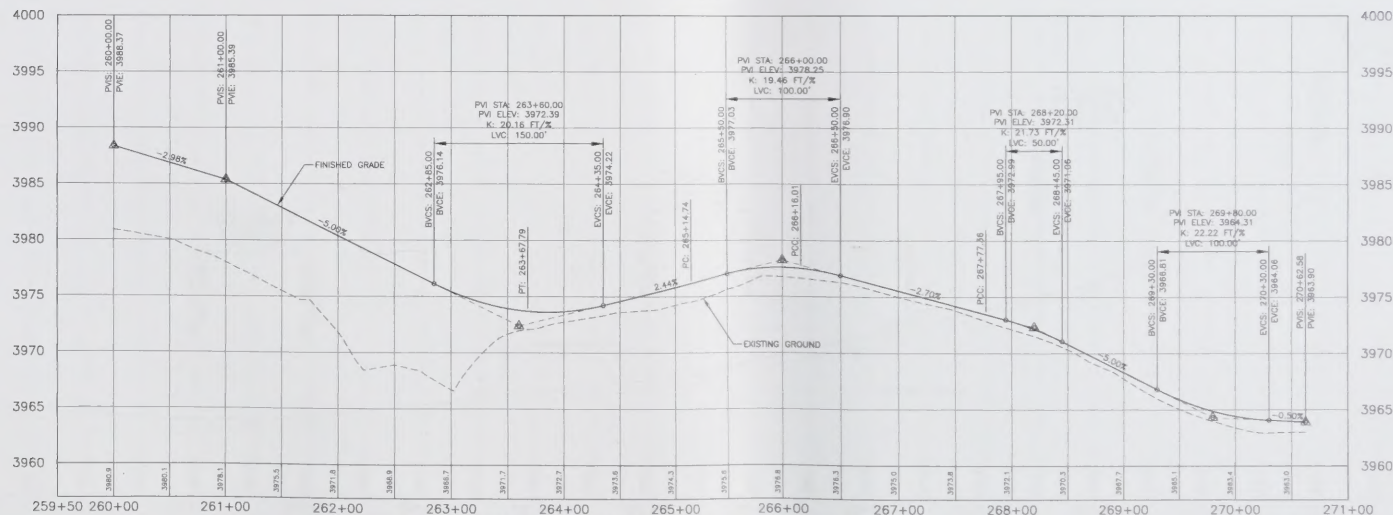
Centennial Park ASPHALT TRAIL C PLAN AND PROFILE

CARL THUSEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
925 GRAND AVE. SUITE 108
P.O. BOX 22949
BILLINGS, MT 59108
406-532-5545 FAX 406-585-5655

Drawn by: DMA
Date: 1/1/02
Checked by: THS
Date: 1/1/02
Rev: _____
Rev: _____
File: _____



PLAN VIEW OF ASPHALT TRAIL C - STA. 259+50 TO STA. 271+00



PROFILE VIEW OF ASPHALT TRAIL C - STA. 259+50 TO STA. 271+00

HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 5'



Centennial Park ASPHALT TRAIL C PLAN AND PROFILE

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
305 GRAND AVE. SUITE 100
PO BOX 2940
HELENA, MT 59601
406/253-1545 FAX 253-9635

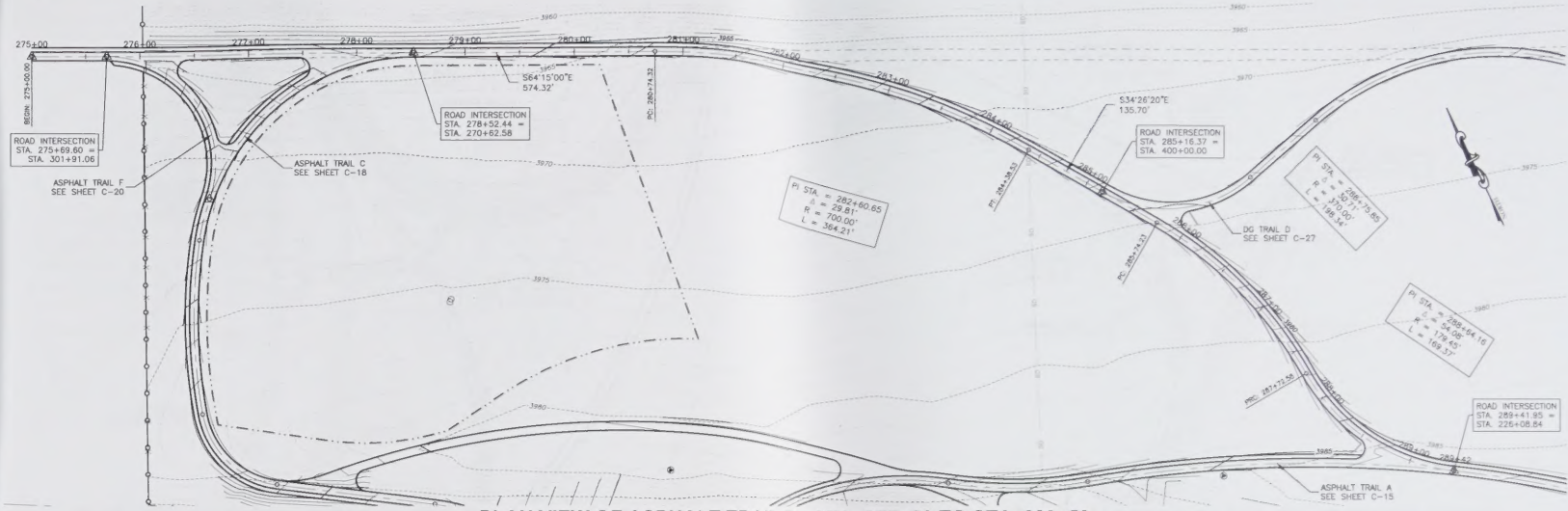
Drawn by: DAA
Date: 2/1/10
Checked by: THS
Date: 2/1/10
Rev: _____
Rev: _____
File: _____



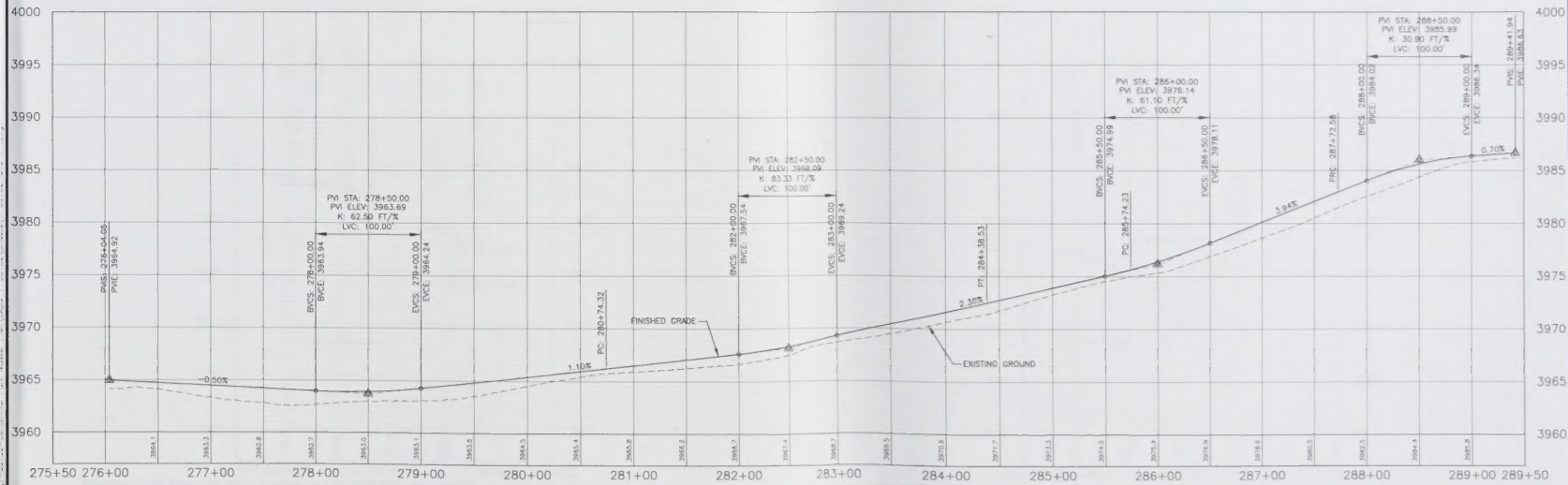
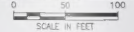
Centennial Park
ASPHALT TRAIL D
PLAN AND PROFILE

CARL THUESEN
A S I A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1005 GRAND AVE. SUITE 100
P.O. BOX 12043
BILLINGS, MT 59101
406/233-5545 FAX 245-9655

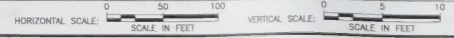
Drawn by: DAW
Date: 2/1/02
Checked by: THS
Date: 2/1/02
Rev: _____
Rev: _____
File: _____

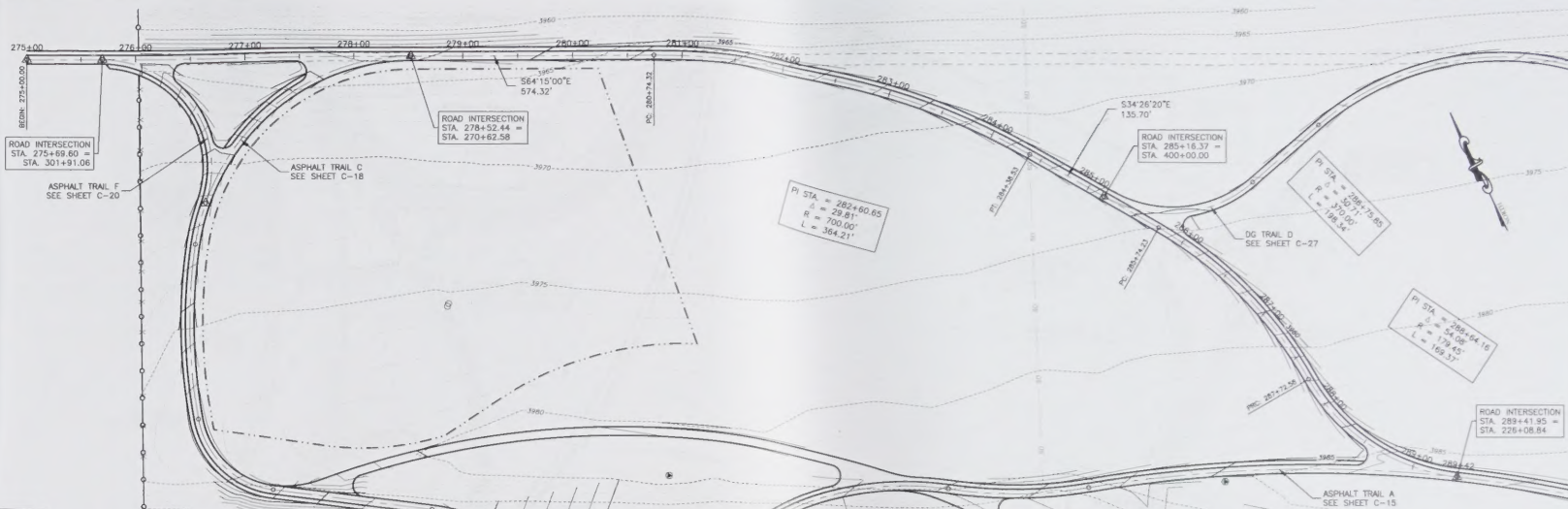


PLAN VIEW OF ASPHALT TRAIL D - STA. 275+50 TO STA. 289+50



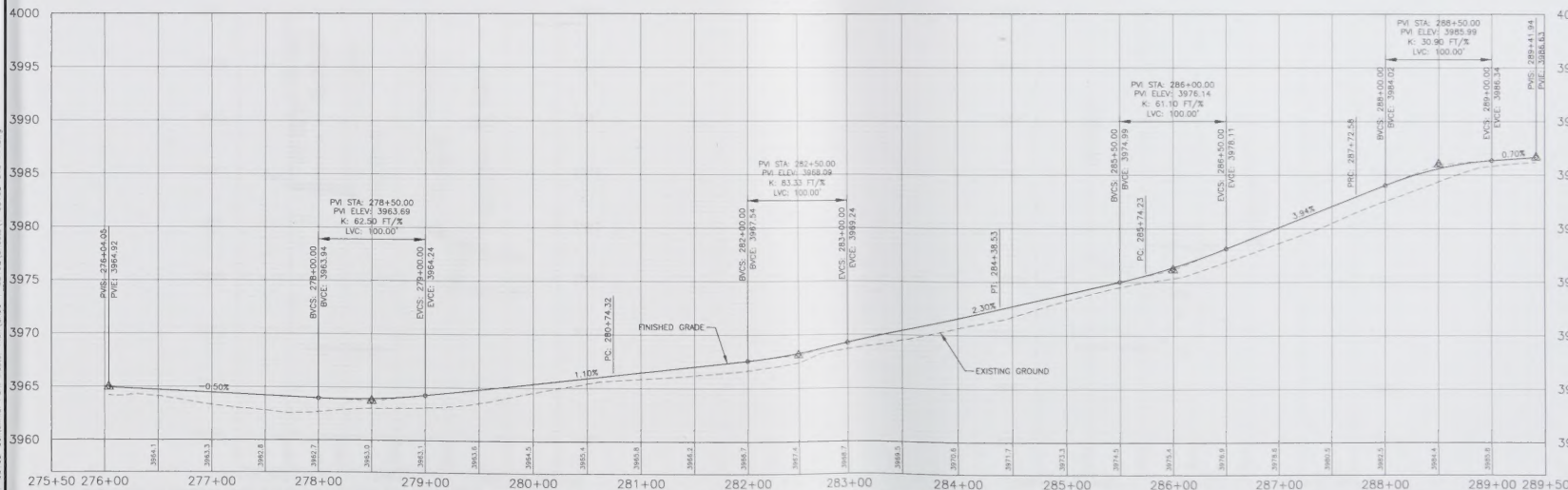
PROFILE VIEW OF ASPHALT TRAIL D - STA. 275+50 TO STA. 289+50





PLAN VIEW OF ASPHALT TRAIL D - STA. 275+50 TO STA. 289+50

0 50 100
SCALE IN FEET



PROFILE VIEW OF ASPHALT TRAIL D - STA. 275+50 TO STA. 289+50

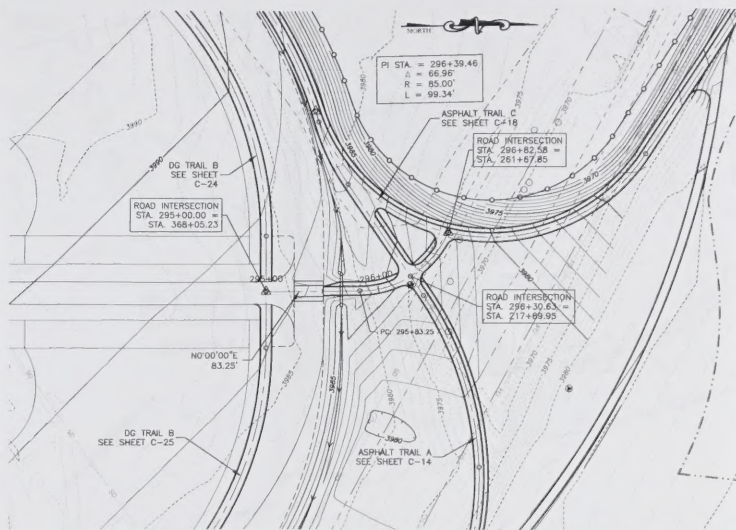
HORIZONTAL SCALE: 0 50 100
SCALE IN FEET
VERTICAL SCALE: 0 5 10
SCALE IN FEET

Centennial Park
ASPHALT TRAIL D
PLAN AND PROFILE

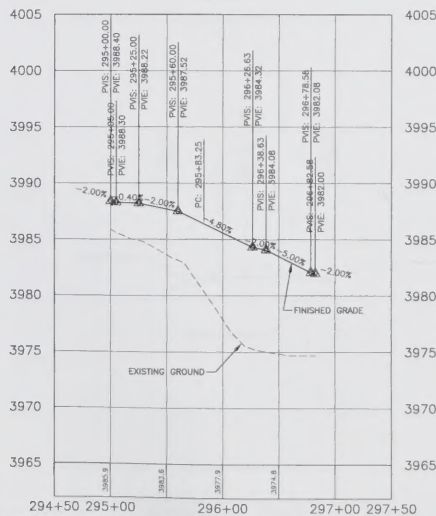
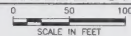
CARL THUESSEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE

1925 GRAND AVE. SUITE 105
P.O. BOX 12940
BIRMINGHAM, AL 35212
404/252-5545 FAX 205-9855

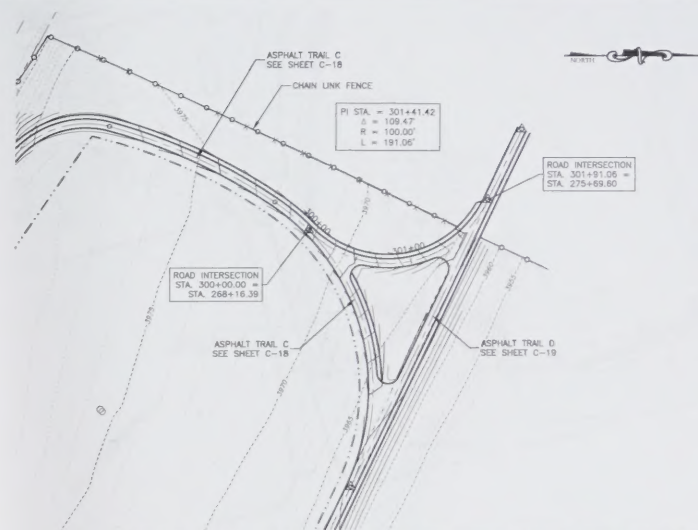
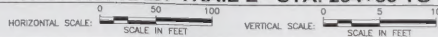
Drawn by: DAA
Date: 2/1/02
Checked by: TRC
Date: 2/1/02
Rev:
Rev:
File:



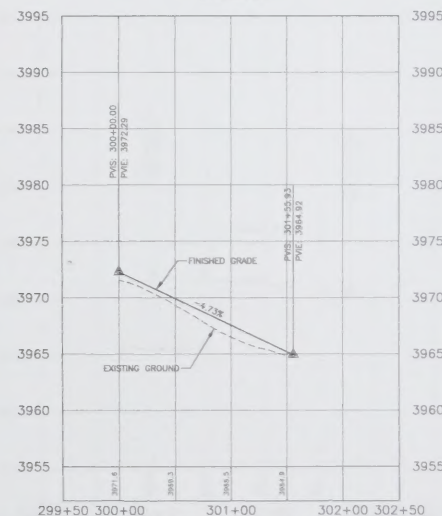
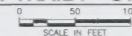
PLAN VIEW OF ASPHALT TRAIL E - STA. 294+50 TO STA. 297+50



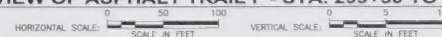
PROFILE VIEW OF ASPHALT TRAIL E - STA. 294+50 TO STA. 297+50



PLAN VIEW OF ASPHALT TRAIL F - STA. 299+50 TO STA. 302+50



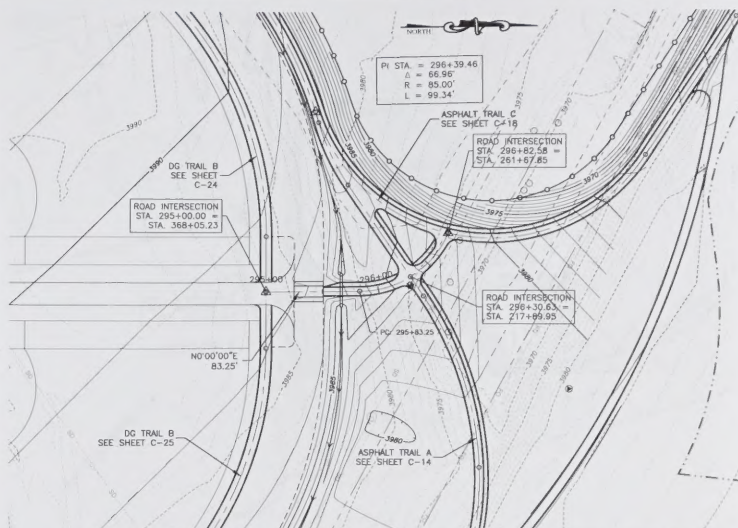
PROFILE VIEW OF ASPHALT TRAIL F - STA. 299+50 TO STA. 302+50



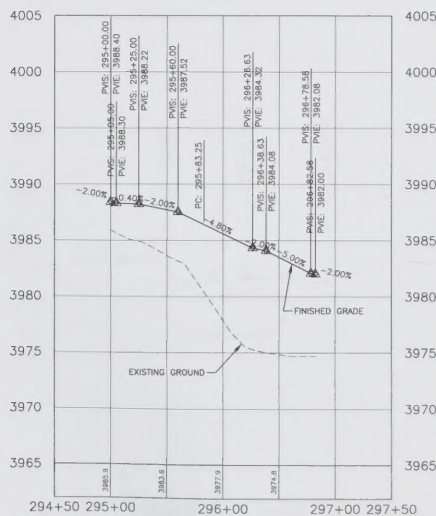
Centennial Park ASPHALT TRAIL E AND F PLAN AND PROFILE

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
105 GRAND AVE. SUITE 105
P.O. BOX 2940
BILLINGS, MT 59108
406.332.0545 FAX 406.465.4655

Drawn by: DMA
Date: 2/1/10
Checked by: THS
Date: 2/1/10
Rev: _____
Rev: _____
File: _____

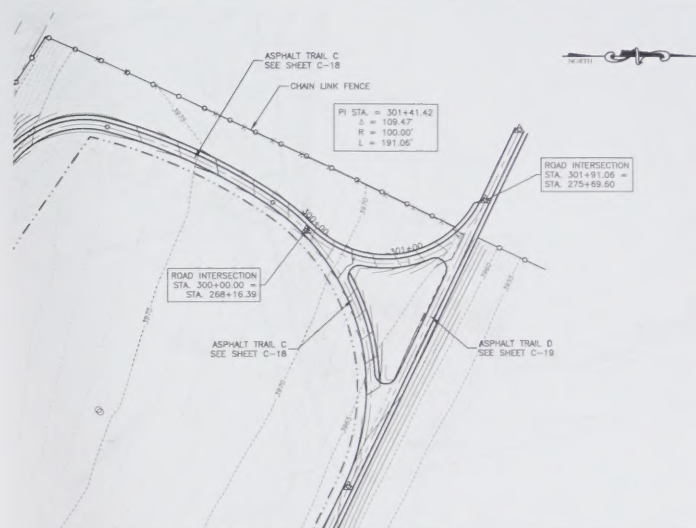


PLAN VIEW OF ASPHALT TRAIL E - STA. 294+50 TO STA. 297+50

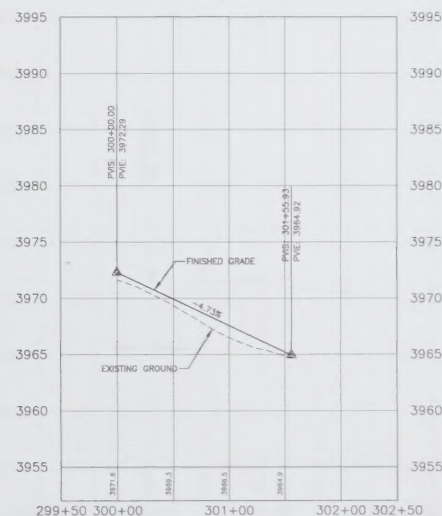


PROFILE VIEW OF ASPHALT TRAIL E - STA. 294+50 TO STA. 297+50

HORIZONTAL SCALE: 0 50 100 SCALE IN FEET
VERTICAL SCALE: 0 5 10 SCALE IN FEET



PLAN VIEW OF ASPHALT TRAIL F - STA. 299+50 TO STA. 302+50



PROFILE VIEW OF ASPHALT TRAIL F - STA. 299+50 TO STA. 302+50

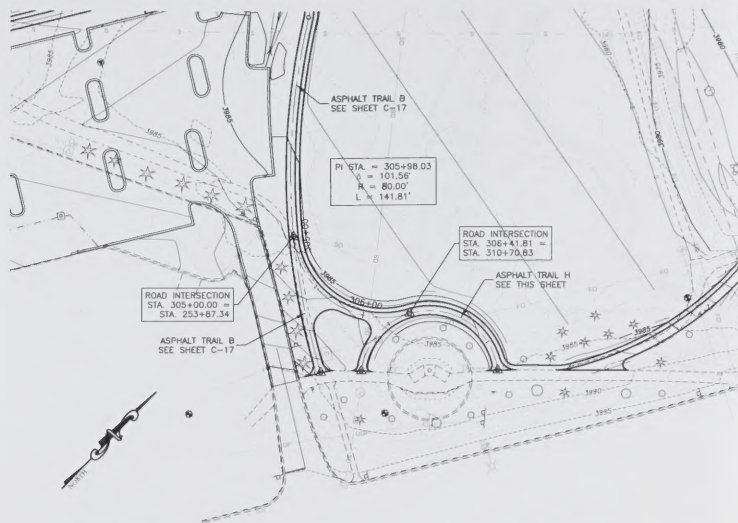
HORIZONTAL SCALE: 0 50 100 SCALE IN FEET
VERTICAL SCALE: 0 5 10 SCALE IN FEET



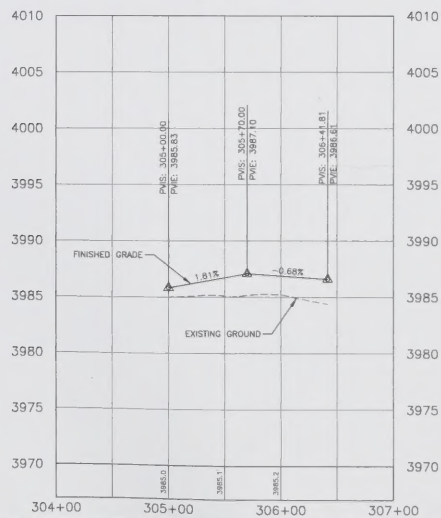
Centennial Park
ASPHALT TRAIL E AND F
PLAN AND PROFILE

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1925 GRAND AVE. SUITE 100
P.O. BOX 12940
BILLINGS, MT 59104
406/252-0145 FAX 252-9855

Drawn by: BAA
Date: 2/1/10
Checked by: THS
Date: 2/1/10
Rev: _____
File: _____

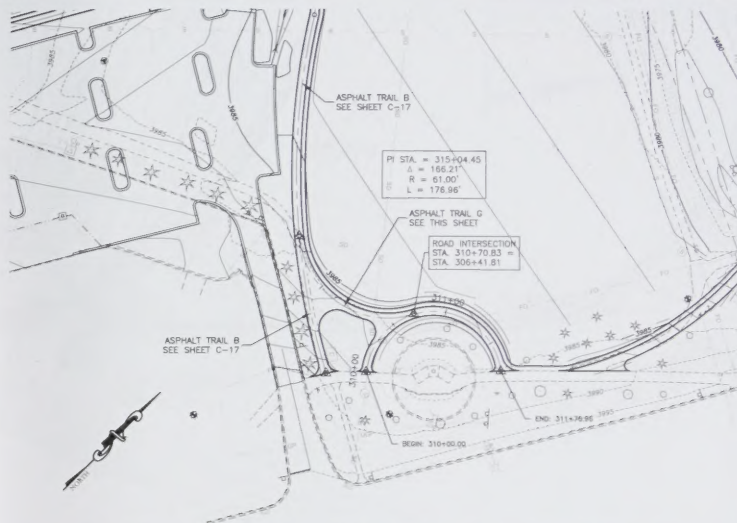


PLAN VIEW OF ASPHALT TRAIL G - STA. 304+00 TO STA. 307+00

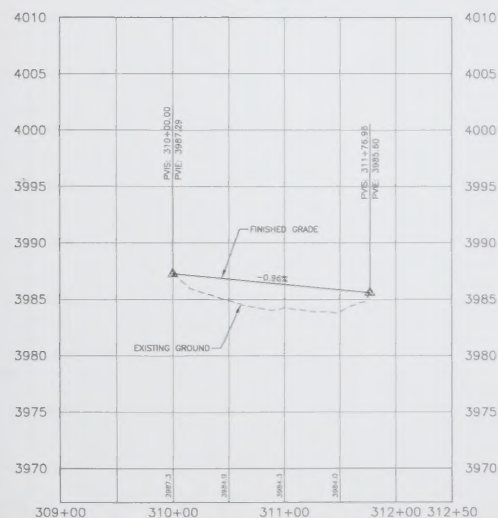


PROFILE VIEW OF ASPHALT TRAIL G - STA. 304+00 TO STA. 307+00

HORIZONTAL SCALE: 0 50 100 SCALE IN FEET
VERTICAL SCALE: 0 5 10 SCALE IN FEET



PLAN VIEW OF ASPHALT TRAIL H - STA. 309+00 TO STA. 312+50



PROFILE VIEW OF ASPHALT TRAIL H - STA. 309+00 TO STA. 312+50

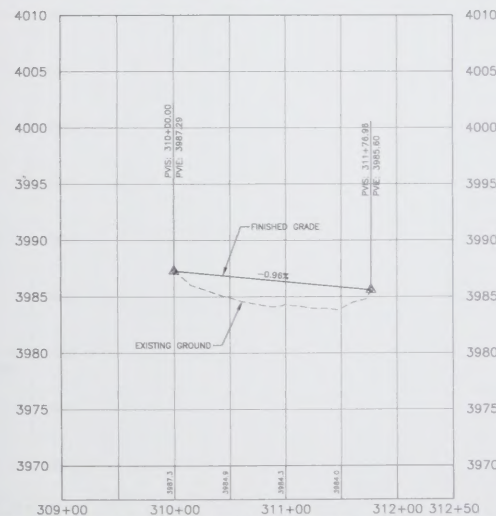
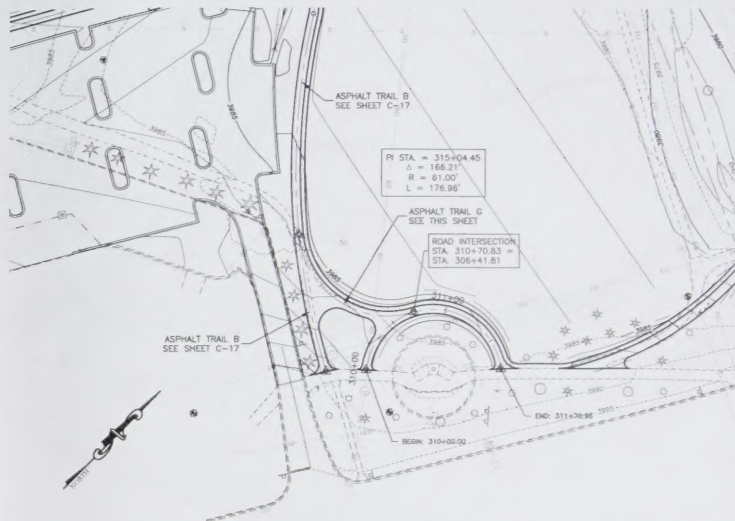
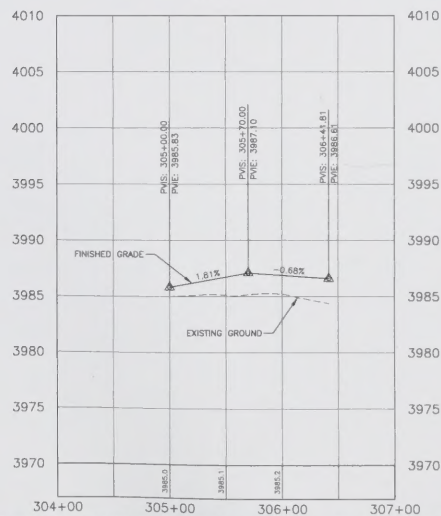
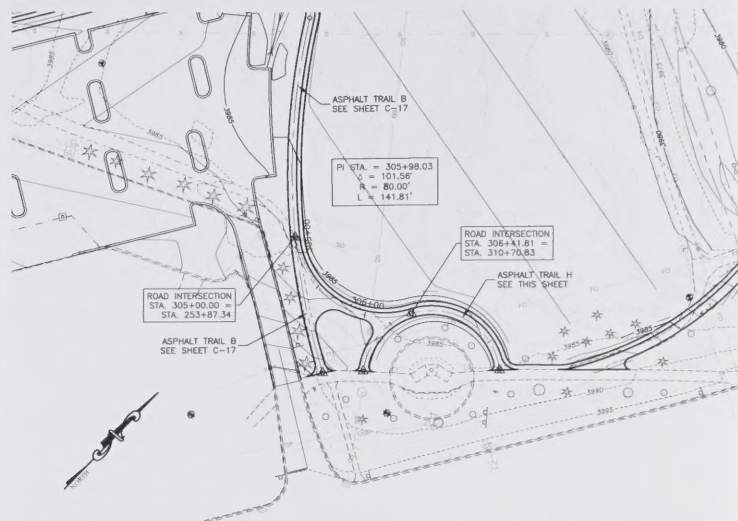
HORIZONTAL SCALE: 0 50 100 SCALE IN FEET
VERTICAL SCALE: 0 5 10 SCALE IN FEET

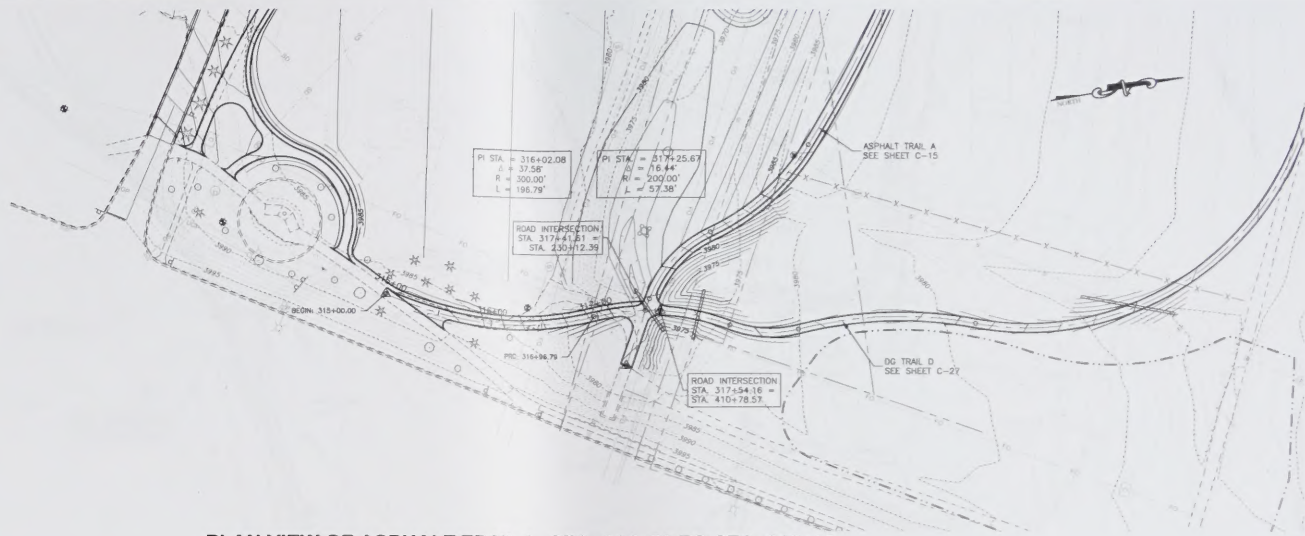


Centennial Park ASPHALT TRAIL G AND H PLAN AND PROFILE

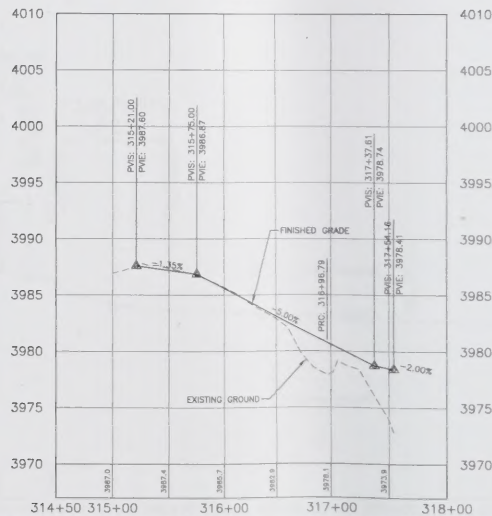
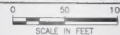
CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1925 GRAND AVE. SUITE 105
P.O. BOX 2949
BILLINGS, MT 59106
406/252-5545 FAX 245-9655

Drawn by: PAA
Date: 2/1/02
Checked by: TKS
Date: 2/1/02
Rev: _____
File: _____

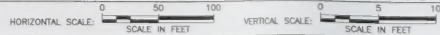




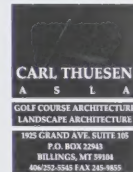
PLAN VIEW OF ASPHALT TRAIL J - STA. 314+50 TO STA. 318+00



PROFILE VIEW OF ASPHALT TRAIL J - STA. 314+50 TO STA. 318+00



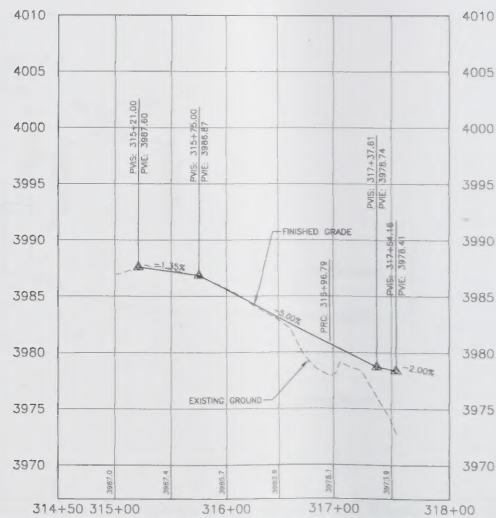
Centennial Park
 ASPHALT TRAIL J
 PLAN AND PROFILE



Drawn by: PAA
 Date: 2/1/07
 Checked by: TNS
 Date: 2/1/07
 Rev: _____
 Rev: _____
 File: _____



PLAN VIEW OF ASPHALT TRAIL J - STA. 314+50 TO STA. 318+00



PROFILE VIEW OF ASPHALT TRAIL J - STA. 314+50 TO STA. 318+00

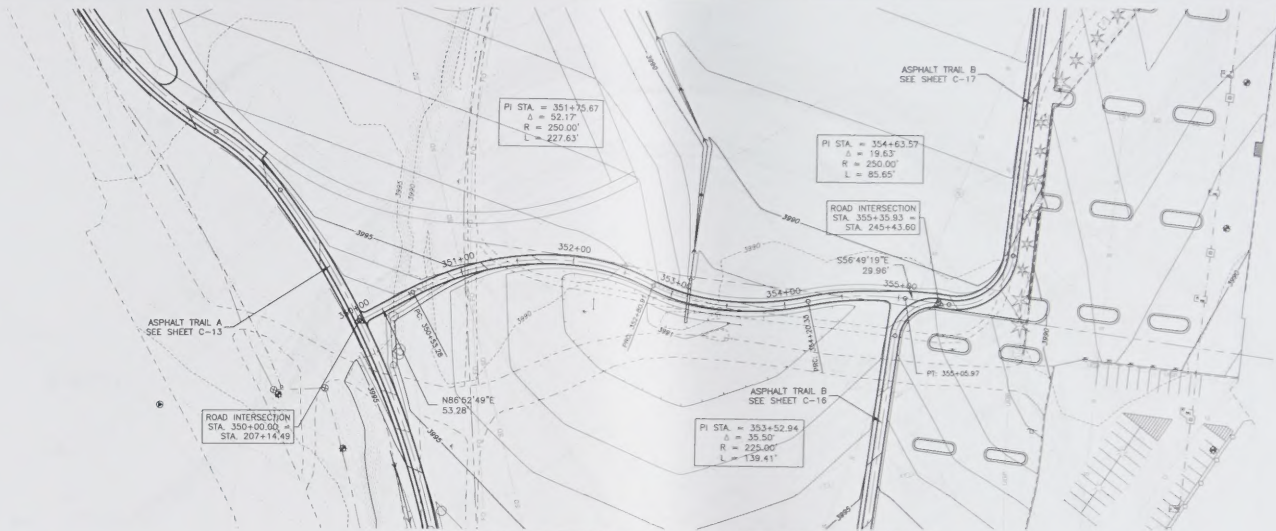
HORIZONTAL SCALE: 0 50 100 SCALE IN FEET
VERTICAL SCALE: 0 5 10 SCALE IN FEET



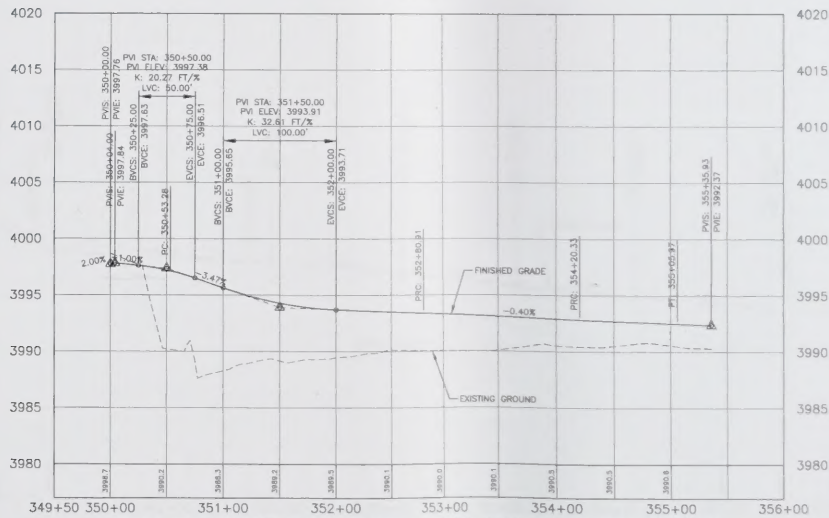
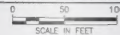
Centennial Park ASPHALT TRAIL J PLAN AND PROFILE

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1805 GRAND AVE. SUITE 100
P.O. BOX 32943
BELLINGHAM, WA 98244
408/525-0545 FAX 245-9653

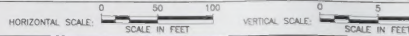
Drawn by: CAA
Date: 2/1/10
Checked by: THS
Date: 2/1/10
Rev: _____
File: _____



PLAN VIEW OF DG TRAIL A - STA. 349+50 TO STA. 356+00



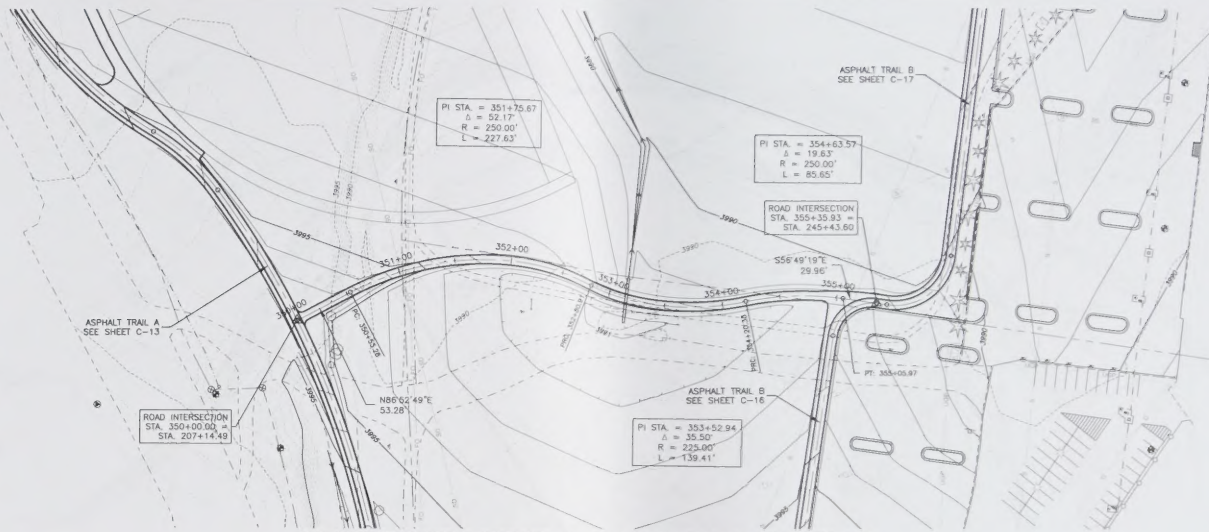
PROFILE VIEW OF DG TRAIL A - STA. 349+50 TO STA. 356+00



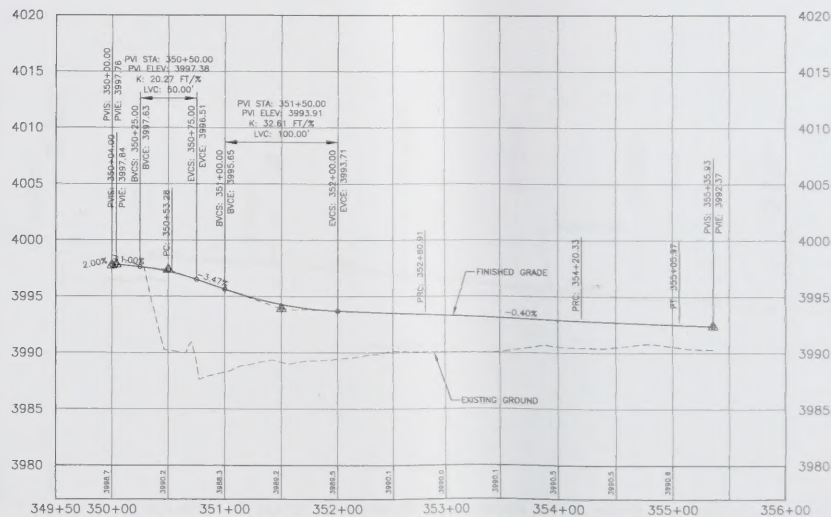
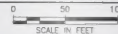
Centennial Park DG TRAIL A PLAN AND PROFILE

CARL THUESEN
A S I A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1925 GRAND AVE. SUITE 105
P.O. BOX 22949
BIRMINGHAM, AL 35202
205/252-5548 FAX 205-9835

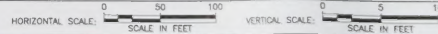
Drawn by: DMA
Date: 3/1/02
Checked by: TKS
Date: 3/1/02
Rev: _____
Rev: _____
File: _____



PLAN VIEW OF DG TRAIL A - STA. 349+50 TO STA. 356+00



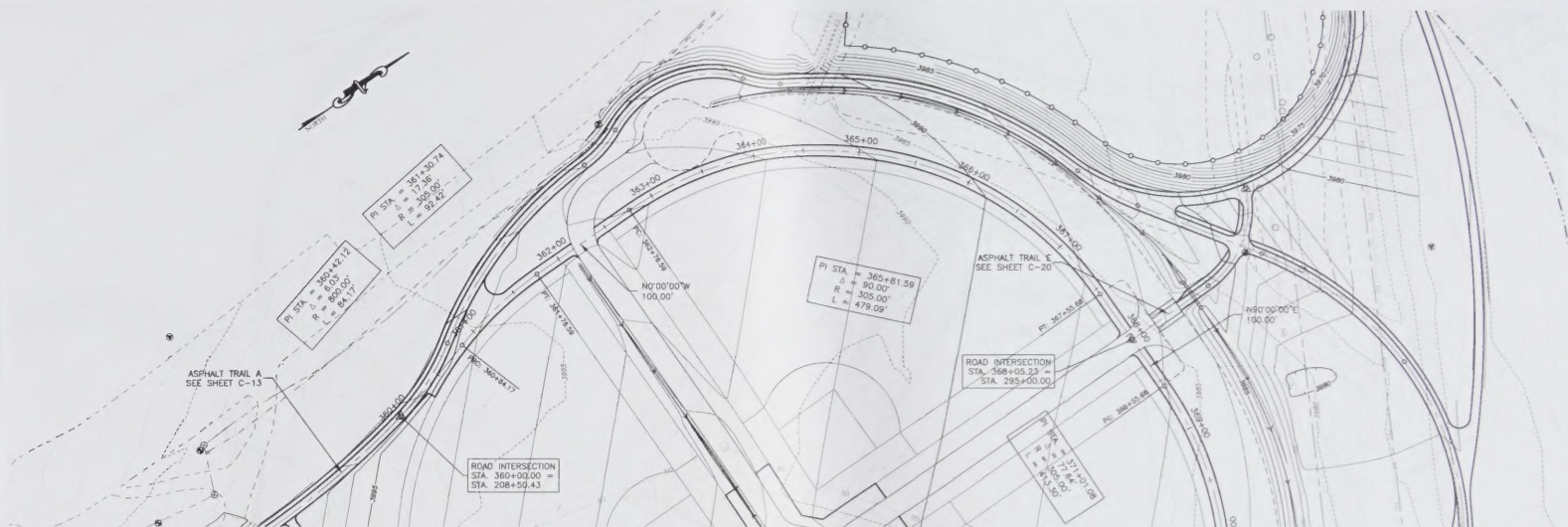
PROFILE VIEW OF DG TRAIL A - STA. 349+50 TO STA. 356+00



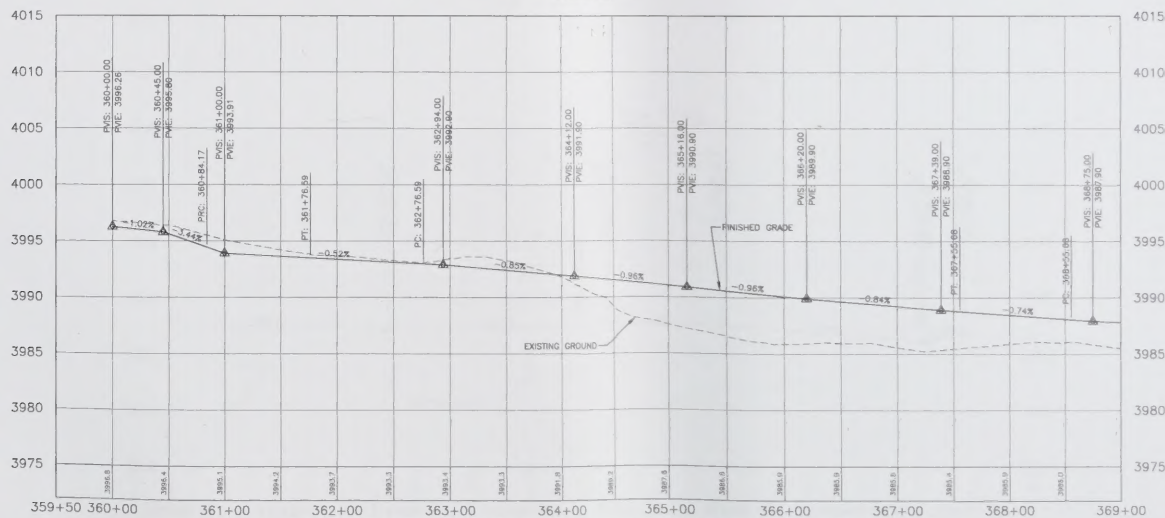
Centennial Park DG TRAIL A PLAN AND PROFILE

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1825 GRAND AVENUE SUITE 100
P.O. BOX 12949
BILLINGS, MT 59104
406/252-6548 FAX 252-9605

Drawn by: DAW
Date: 2/1/02
Checked by: THS
Date: 2/1/02
Rev: _____
File: _____



PLAN VIEW OF DG TRAIL B - STA. 359+50 TO STA. 369+00



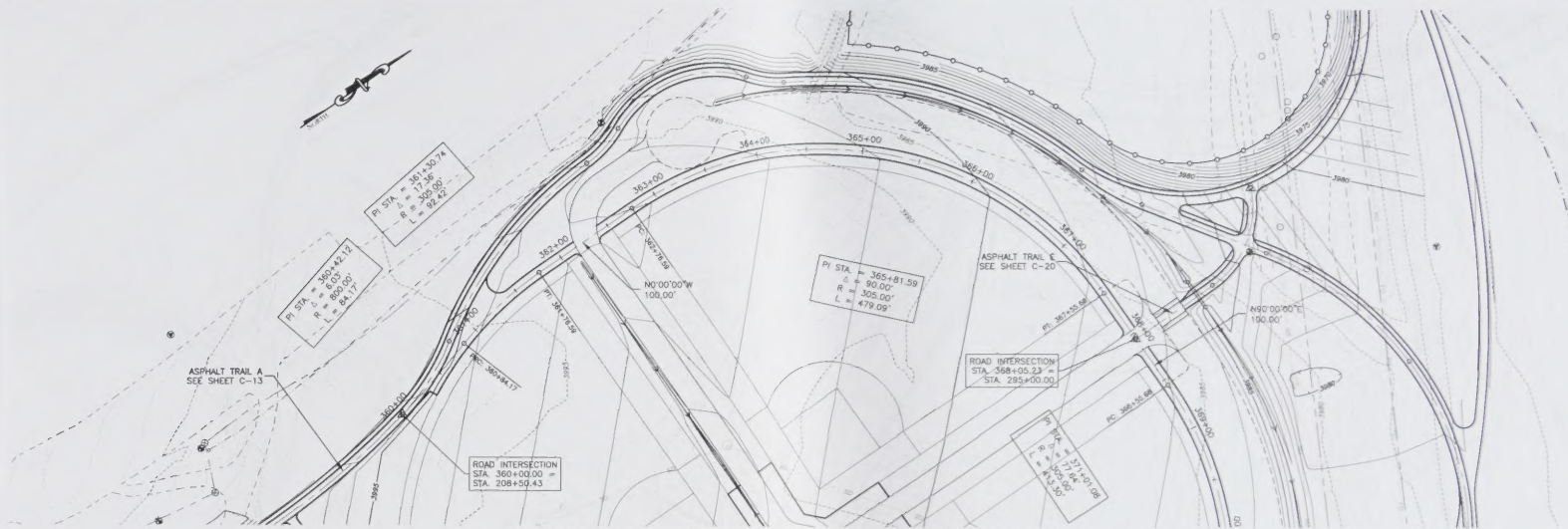
PROFILE VIEW OF DG TRAIL B - STA. 359+50 TO STA. 369+00



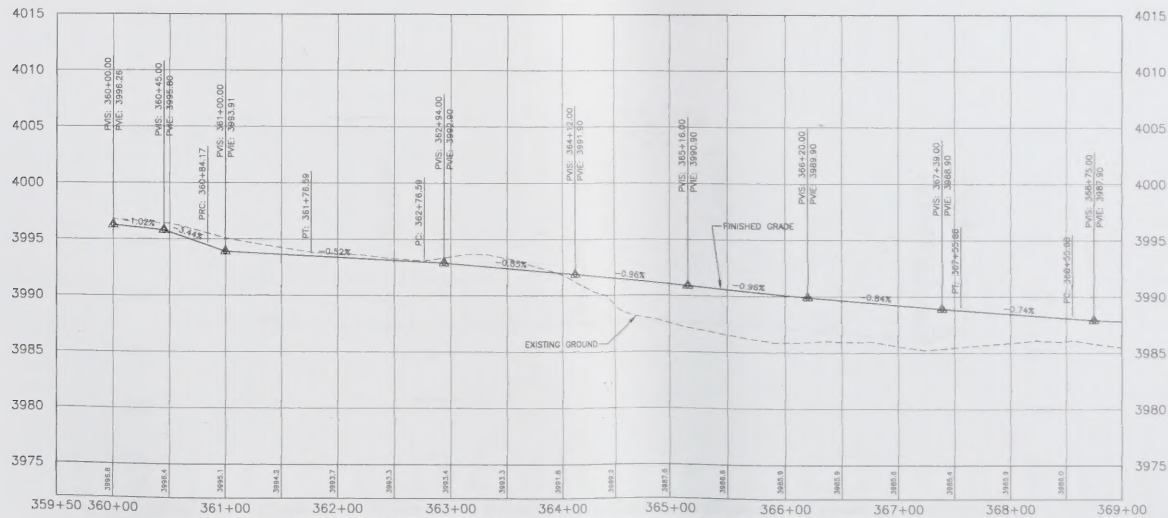
Centennial Park DG TRAIL B PLAN AND PROFILE

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1025 GRAND AVE. SUITE 100
P.O. BOX 22846
BILLINGS, MT 59104
406/252-5540 FAX 252-9805

Drawn by: DMA
Date: 2/1/10
Checked by: TNS
Date: 2/1/10
Rev: _____
Rev: _____
File: _____

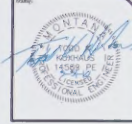


PLAN VIEW OF DG TRAIL B - STA. 359+50 TO STA. 369+00



PROFILE VIEW OF DG TRAIL B - STA. 359+50 TO STA. 369+00

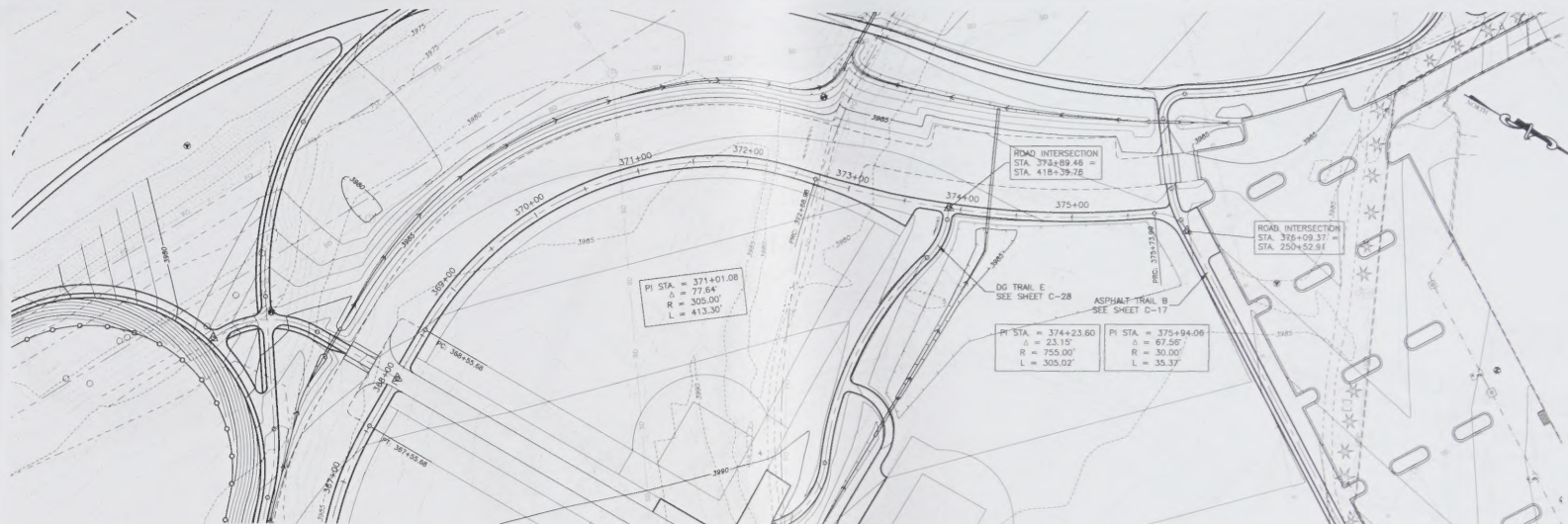
HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 5'



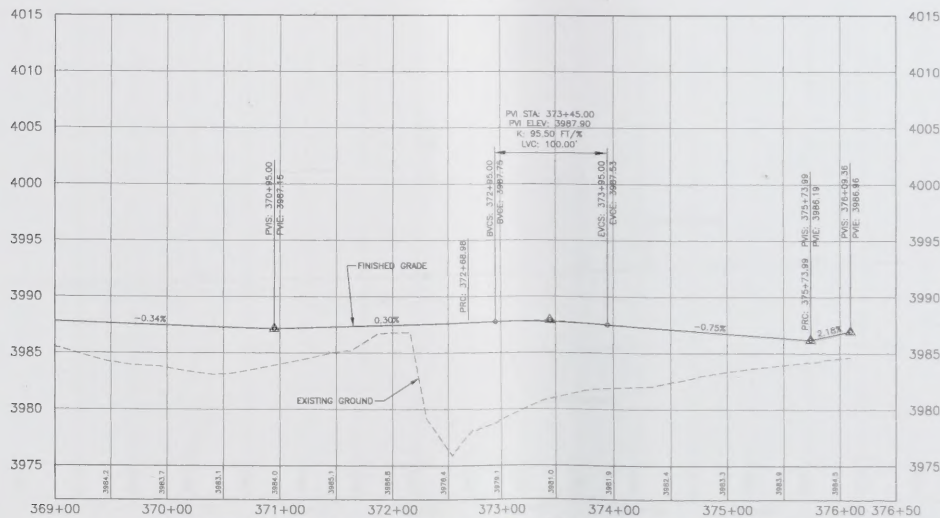
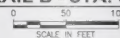
Centennial Park DG TRAIL B PLAN AND PROFILE

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1925 GRAND AVE. SUITE 105
P.O. BOX 12949
BISMARCK, ND 58108
406/220-5548 FAX 220-9800

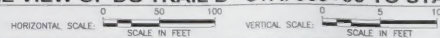
Drawn by: PAA
Date: 2/1/10
Checked by: TDS
Date: 2/1/10
Rev: _____
Rev: _____
File: _____



PLAN VIEW OF DG TRAIL B - STA. 369+00 TO STA. 376+50



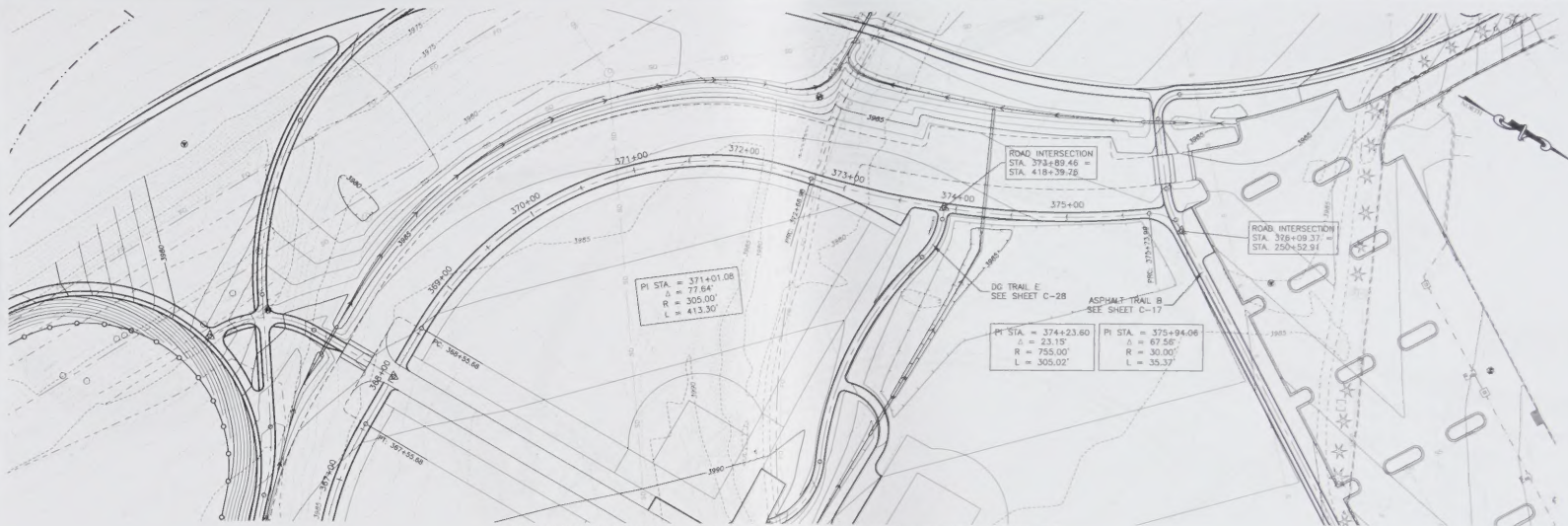
PROFILE VIEW OF DG TRAIL B - STA. 369+00 TO STA. 376+50



Centennial Park
DG TRAIL B
PLAN AND PROFILE

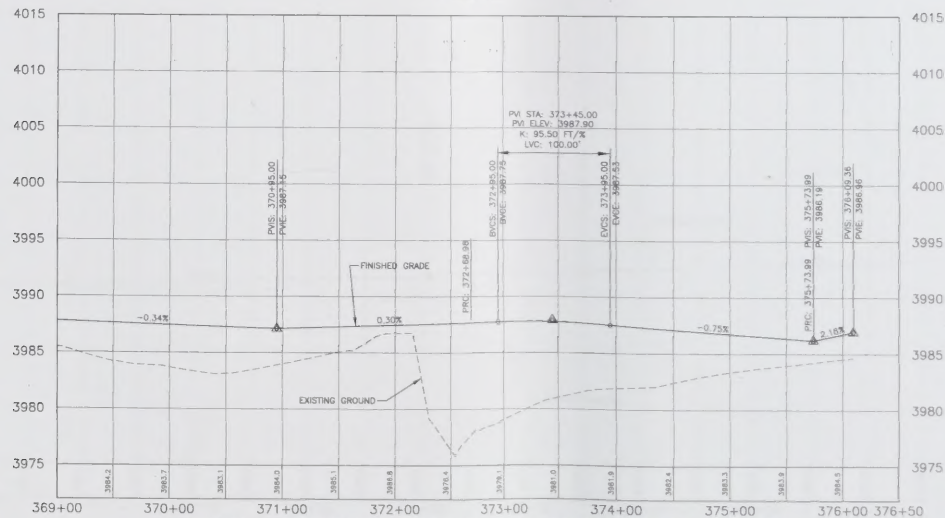


Drawn by: DA
Date: 2/1/10
Checked by: THS
Date: 2/1/10
Rev: _____
File: _____



PLAN VIEW OF DG TRAIL B - STA. 369+00 TO STA. 376+50

0 50 100
SCALE IN FEET



PROFILE VIEW OF DG TRAIL B - STA. 369+00 TO STA. 376+50

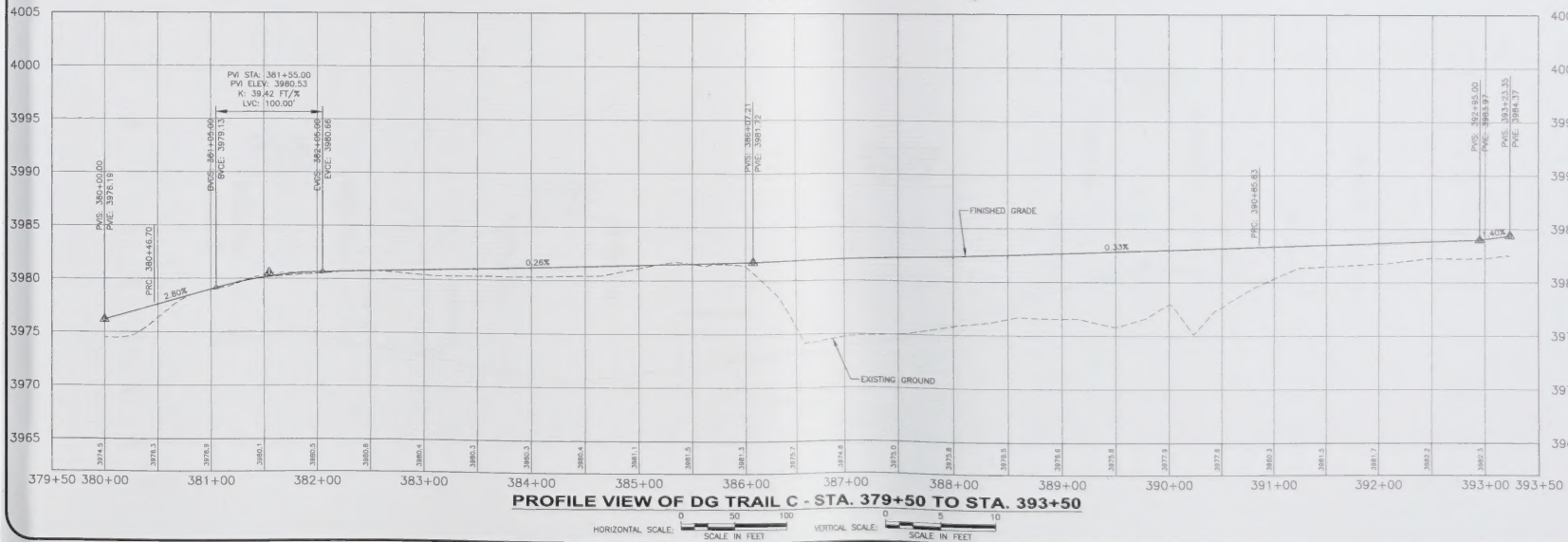
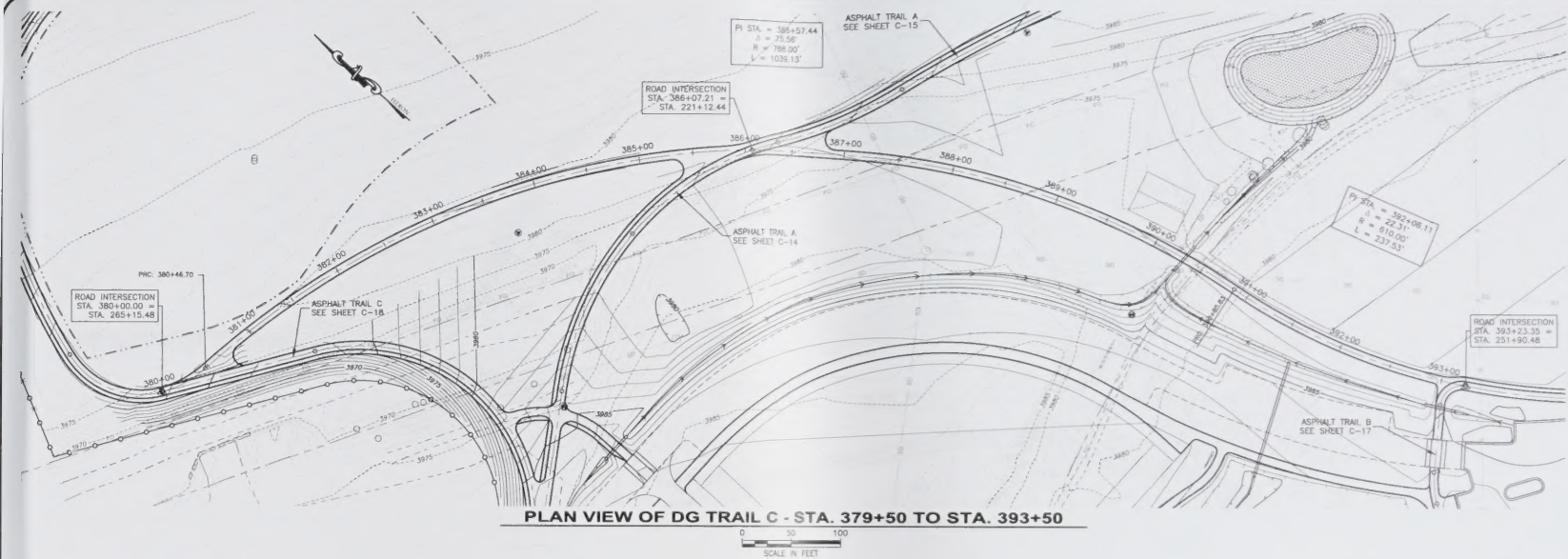
HORIZONTAL SCALE: 0 50 100
SCALE IN FEET
VERTICAL SCALE: 0 5 10
SCALE IN FEET



Centennial Park
DG TRAIL B
PLAN AND PROFILE



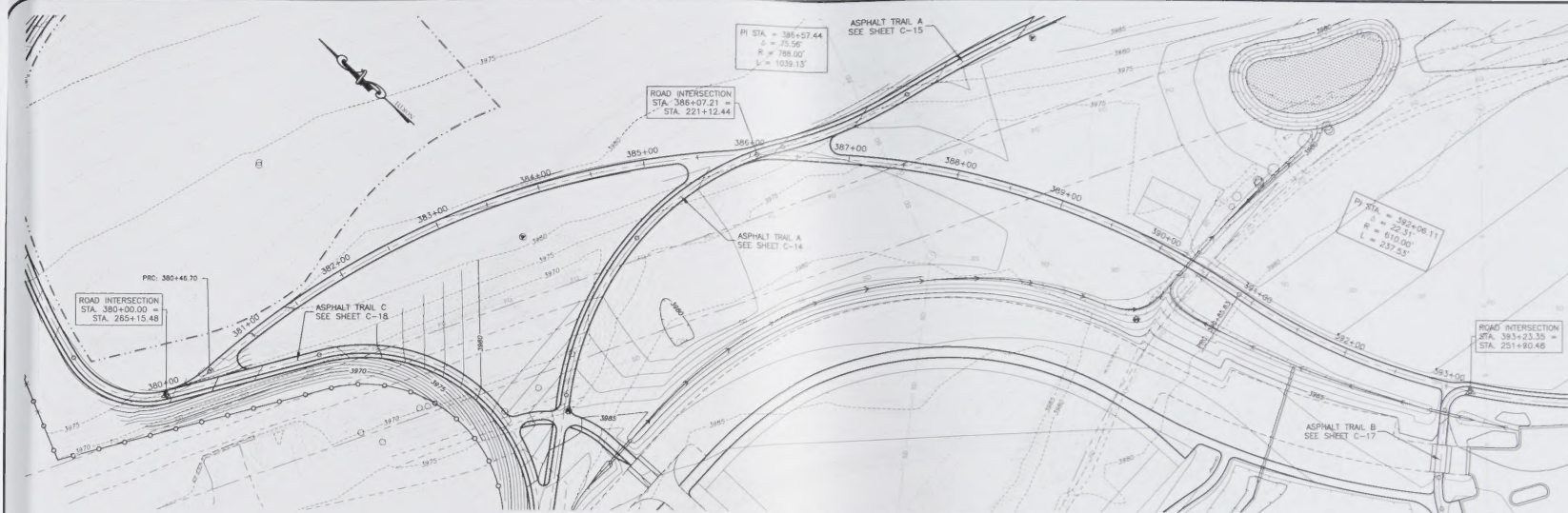
Drawn by: DM
Date: 2/1/10
Checked by: THS
Date: 2/1/10
Rev: _____
Rev: _____
File: _____



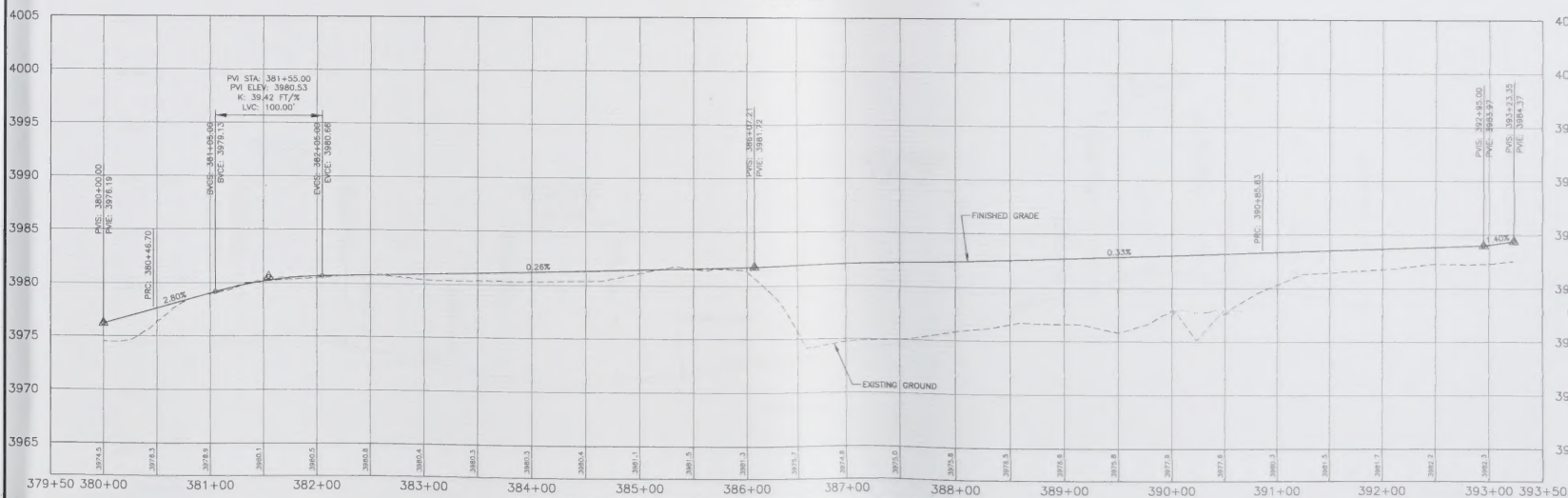
Centennial Park DG TRAIL C PLAN AND PROFILE

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1905 GRAND AVE. SUITE 100
P.O. BOX 25941
BELLINGHAM, WA 98221
408/733-5545 FAX 408-745-9835

Drawn by: DMA
Date: 2/1/10
Checked by: TKP
Date: 2/1/10
Rev: _____
Rev: _____
File: _____



PLAN VIEW OF DG TRAIL C - STA. 379+50 TO STA. 393+50



PROFILE VIEW OF DG TRAIL C - STA. 379+50 TO STA. 393+50

HORIZONTAL SCALE:

0 50 100
SCALE IN FEET

VERTICAL SCALE:

0 5 10
SCALE IN FEET



Centennial Park DG TRAIL C PLAN AND PROFILE

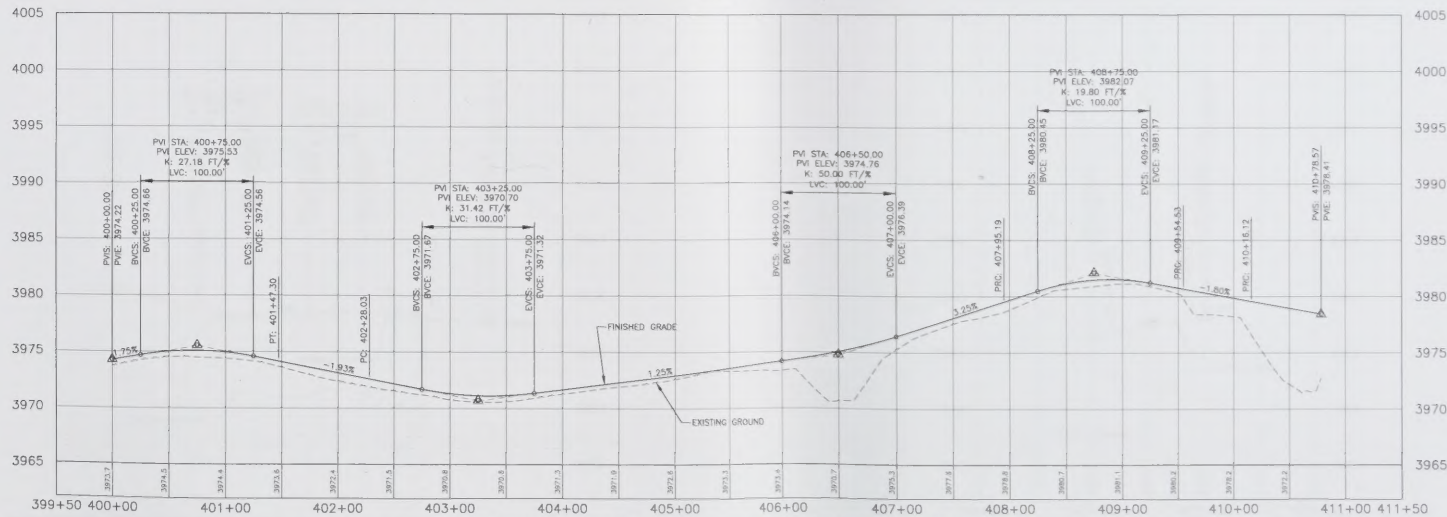
CARL THUSEN
A S L A
GOLF COURSE ARCHITECTURAL
LANDSCAPE ARCHITECTURE
1925 GRAND AVE. SUITE 100
P.O. BOX 20049
BILLINGS, MT 59104
406/255-5048 FAX 245-0655

Drawn by: PAA
Date: 2/1/00
Checked by: TSC
Date: 2/1/00
Rev:
Rev:
File:



PLAN VIEW OF DG TRAIL D - STA. 399+50 TO STA. 411+50

0 50 100
SCALE IN FEET



PROFILE VIEW OF DG TRAIL D - STA. 399+50 TO STA. 411+50

HORIZONTAL SCALE: 0 50 100
SCALE IN FEET
VERTICAL SCALE: 0 5 10
SCALE IN FEET

Centennial Park
DG TRAIL D
PLAN AND PROFILE

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1925 GRAND AVE. SUITE 105
P.O. BOX 3294
BILLINGS, MT 16104
406/252-5548 FAX 245-9855

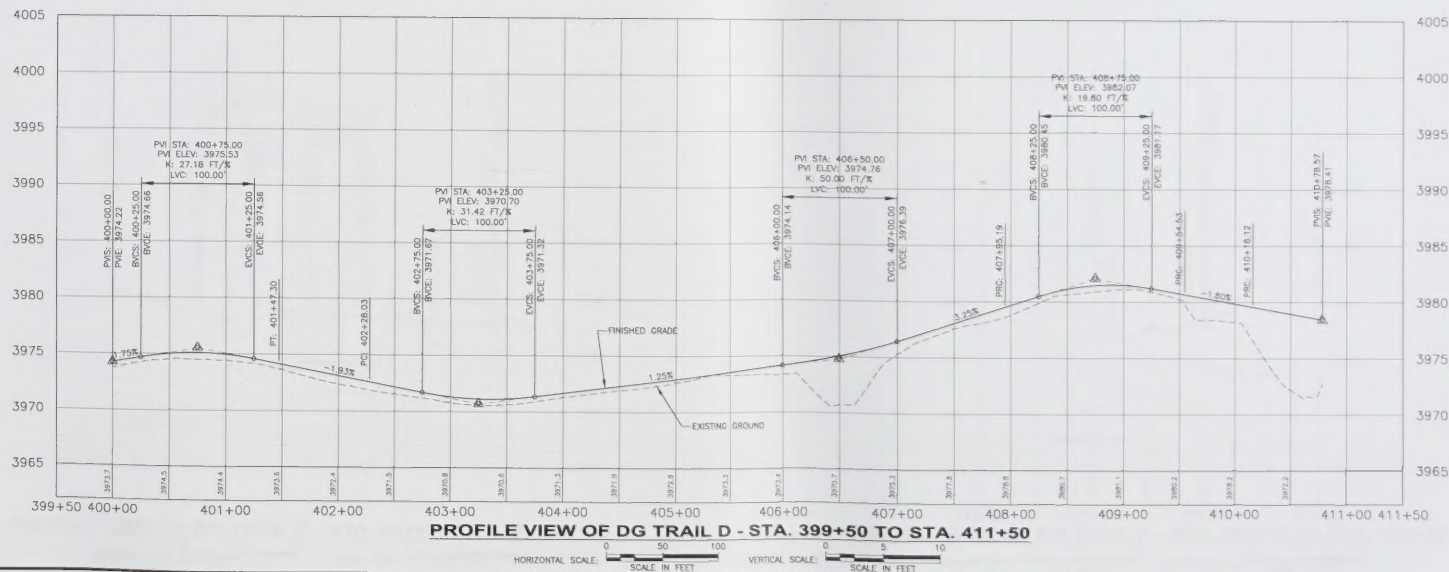
Drawn by: DAA
Date: 3/1/02
Checked by: TNS
Date: 3/1/02
Rev: _____
Rev: _____
File: _____

SHEET
C-27



PLAN VIEW OF DG TRAIL D - STA. 399+50 TO STA. 411+50

0 50 100
SCALE IN FEET



PROFILE VIEW OF DG TRAIL D - STA. 399+50 TO STA. 411+50

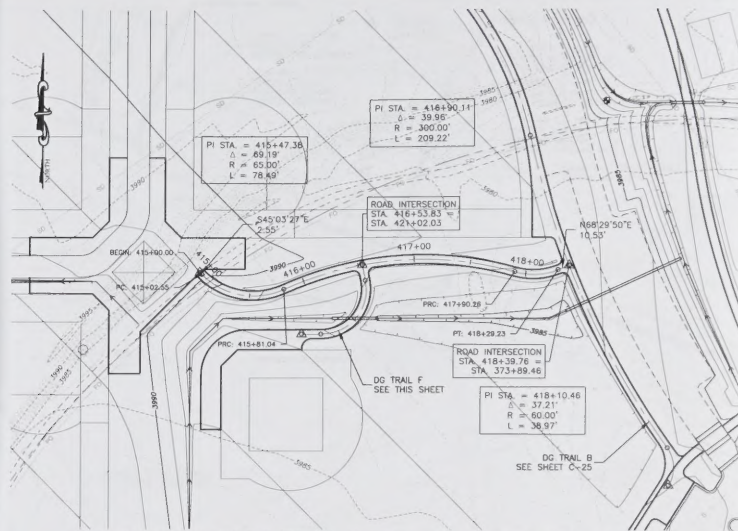
0 50 100 0 5 10
HORIZONTAL SCALE: SCALE IN FEET VERTICAL SCALE: SCALE IN FEET

Centennial Park
DG TRAIL D
PLAN AND PROFILE

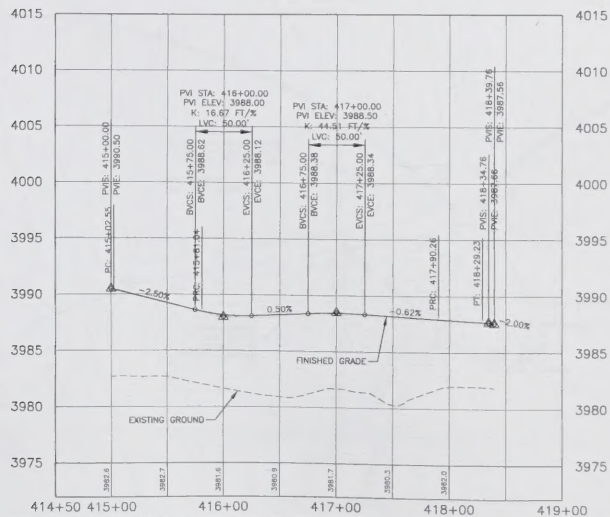
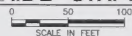
CARL THUESEN
A S I A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1925 GRAND AVE. SUITE 106
P.O. BOX 22949
BIRMINGHAM, AL 35202
205/252-0546 FAX 205-9833

Drawn by: PAA
Date: 2/1/02
Checked by: TKS
Date: 2/1/02
Rev:
Rev:
File:

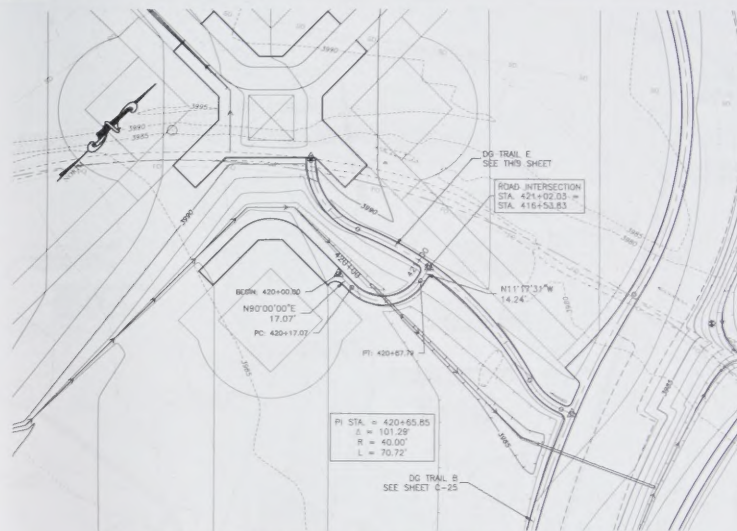
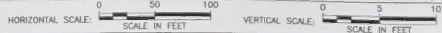
SHEET
C-27



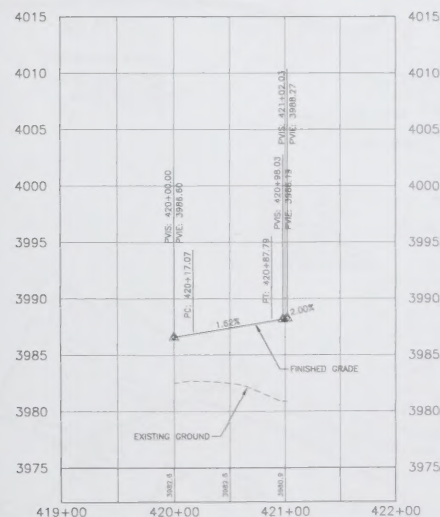
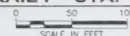
PLAN VIEW OF DG TRAIL E - STA. 414+50 TO STA. 419+00



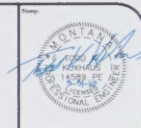
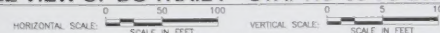
PROFILE VIEW OF DG TRAIL E - STA. 414+50 TO STA. 419+00



PLAN VIEW OF DG TRAIL F - STA. 419+00 TO STA. 422+00



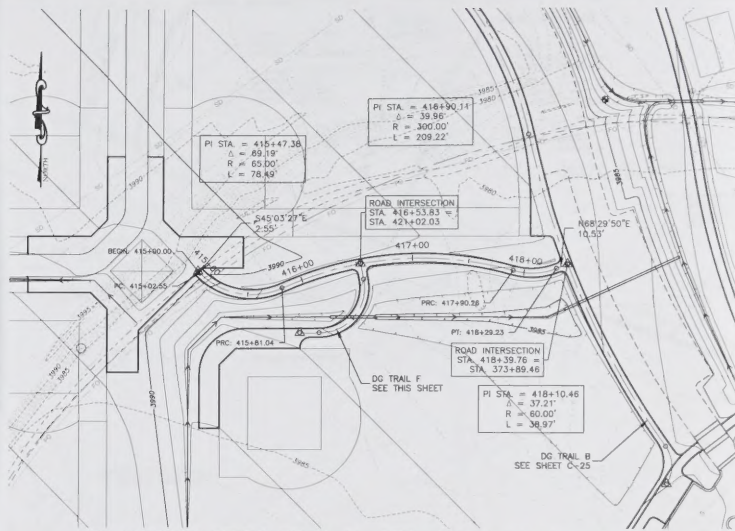
PROFILE VIEW OF DG TRAIL F - STA. 419+00 TO STA. 422+00



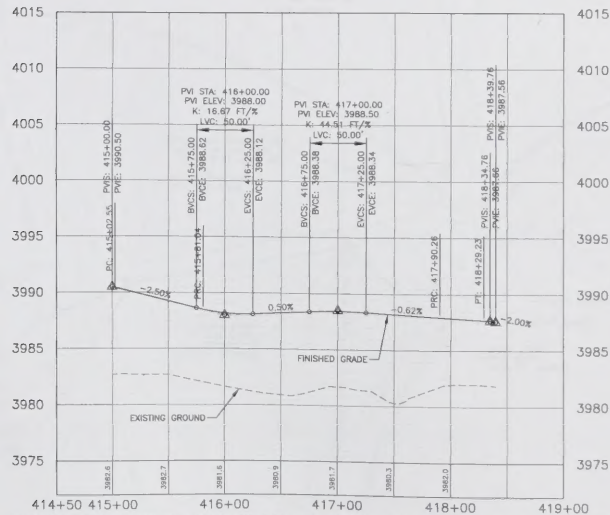
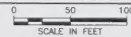
Centennial Park DG TRAIL E AND F PLAN AND PROFILE



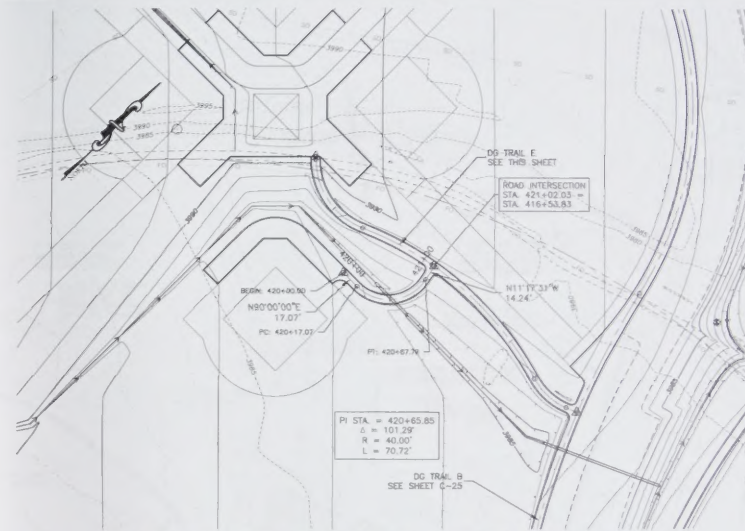
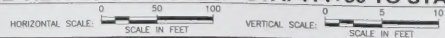
Drawn by: DM
Date: 2/1/02
Checked by: TKS
Date: 2/1/02
Rev: _____
File: _____



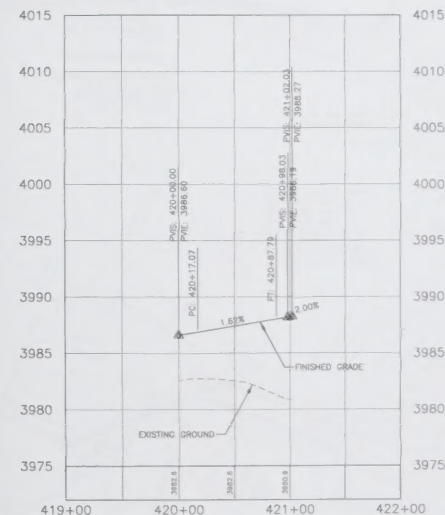
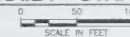
PLAN VIEW OF DG TRAIL E - STA. 414+50 TO STA. 419+00



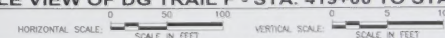
PROFILE VIEW OF DG TRAIL E - STA. 414+50 TO STA. 419+00



PLAN VIEW OF DG TRAIL F - STA. 419+00 TO STA. 422+00



PROFILE VIEW OF DG TRAIL F - STA. 419+00 TO STA. 422+00



Centennial Park DG TRAIL E AND F PLAN AND PROFILE

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1913 GRAND AVE., SUITE 105
P.O. BOX 2290
HELENA, MT 59606
406.252.5845 FAX 245-9035

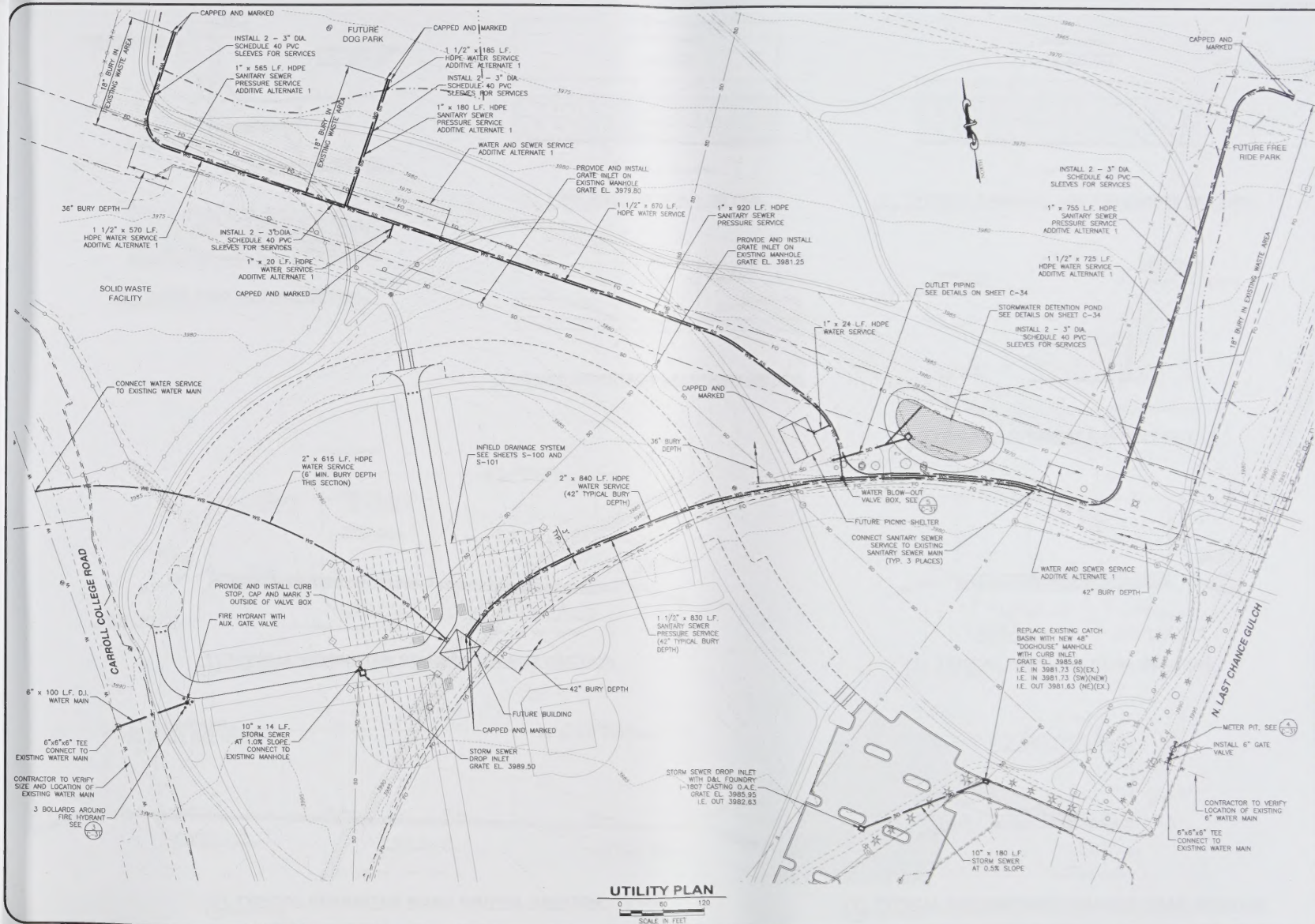
Drawn by: BAA
Date: 2/1/10
Checked by: TRS
Date: 2/1/10
Rev: _____
File: _____



Centennial Park UTILITY PLAN

CARL THUENSEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
3925 GRAND AVE. SUITE 105
P.O. BOX 22463
BILLINGS, MT 59106
406/252-0545 FAX 406/252-0555

Drawn by: DAA
Date: 3/1/02
Checked by: TPN
Date: 3/1/02
Rev: _____
Rev: _____
File: _____



UTILITY PLAN
0 60 120
SCALE IN FEET

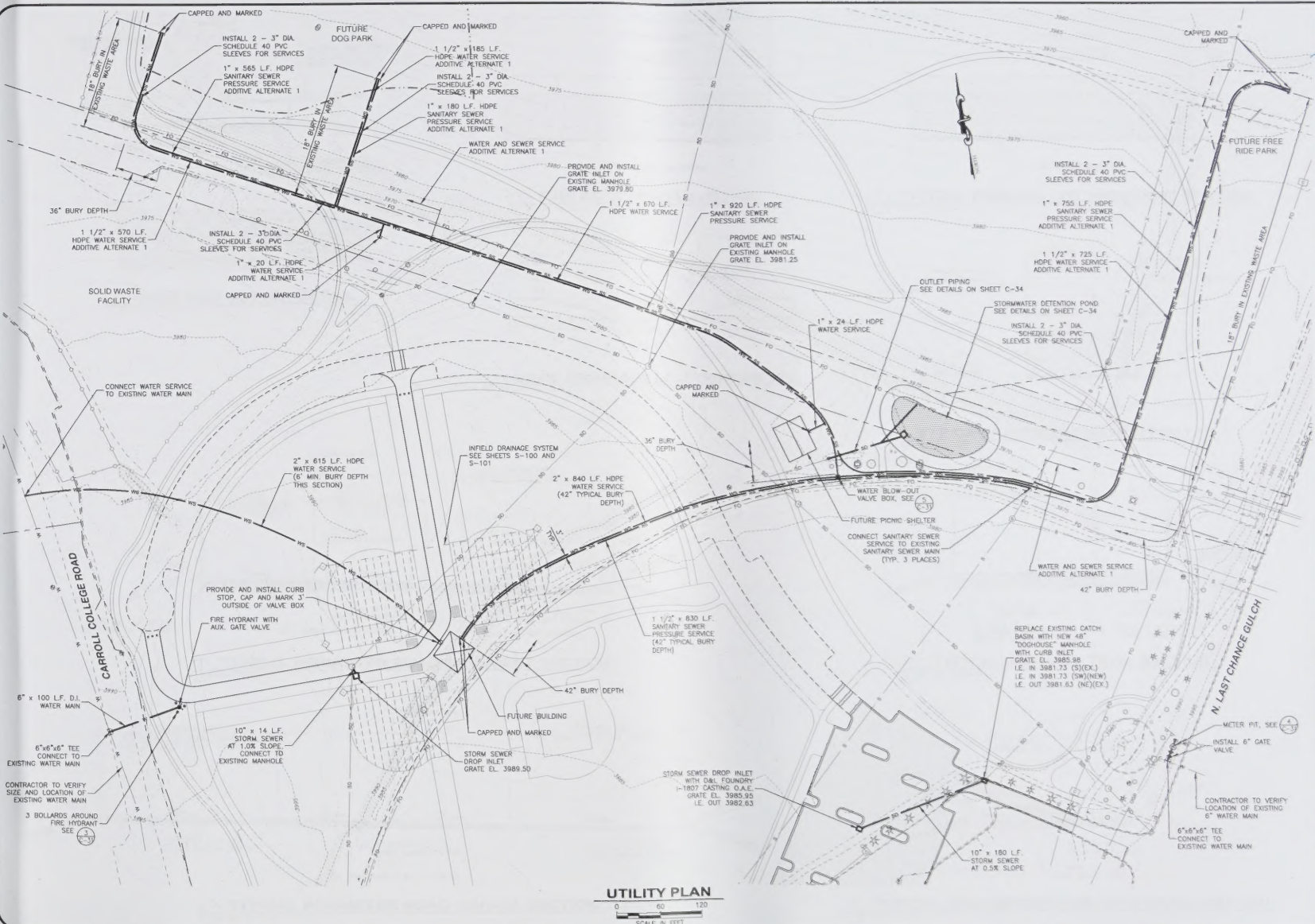


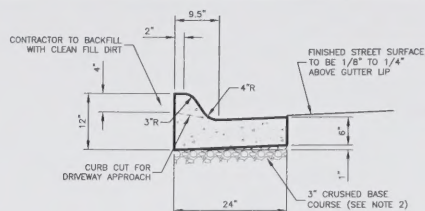
Centennial Park UTILITY PLAN

CARL THUENSEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1105 GRAND AVE. SUITE 310
P.O. BOX 22943
BILLINGS, MT 59101
406/252-5545 FAX 243-9855

Drawn by: BAA
Date: 2/1/10
Checked by: TMS
Date: 2/1/10
Rev: _____
Rev: _____
File: _____

SHEET
C-29



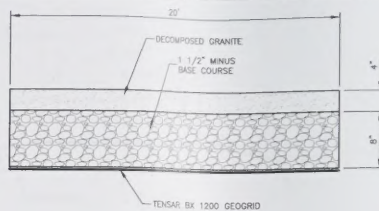


NOTES:

- EXCAVATION REQUIRED FOR CURB AND GUTTER SHALL BE MEASURED AND PAID FOR AS "STREET EXCAVATION" UNDER SECTION 02230 OF THE MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS, FOURTH EDITION, 1996.
- FOR NEW STREET CONSTRUCTION, EXTEND CRUSHED BASE COURSE TO THE BACK OF THE CURB. MINIMUM THICKNESS OF CRUSHED BASE COURSE BENEATH CURB AND GUTTER SHALL BE 3". FOR CURB AND GUTTER REPLACEMENT PROJECTS, PROVIDE A MINIMUM OF 3" OF CRUSHED BASE COURSE BENEATH NEW CURB AND GUTTER.

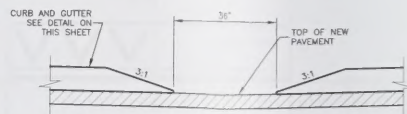
1 CURB AND GUTTER DETAIL

1/8" = 1' NOT TO SCALE



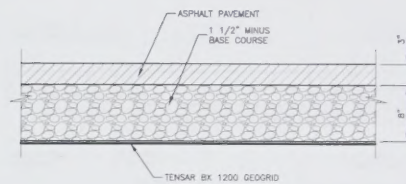
2 FIRE ACCESS ROAD DETAIL

1/8" = 1' NOT TO SCALE



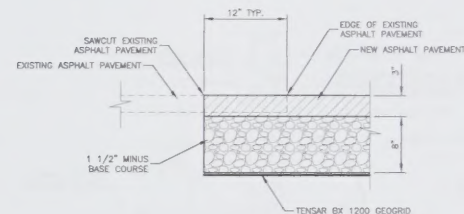
3 CURB DRAINAGE LAYDOWN DETAIL

1/8" = 1' NOT TO SCALE



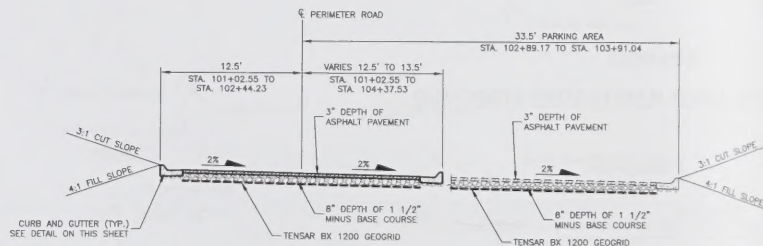
4 TYPICAL PARKING LOT PAVEMENT SECTION

1/8" = 1' NOT TO SCALE



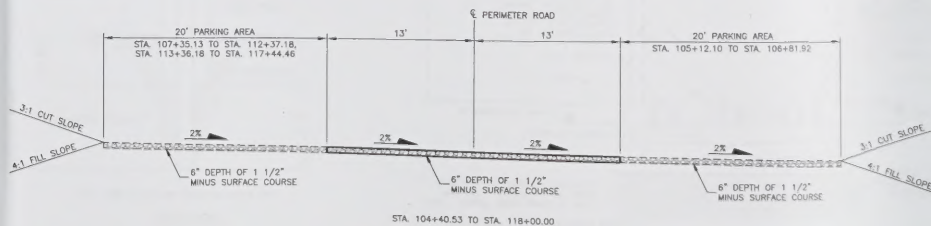
5 TYPICAL PAVEMENT SAWCUT DETAIL

1/8" = 1' NOT TO SCALE



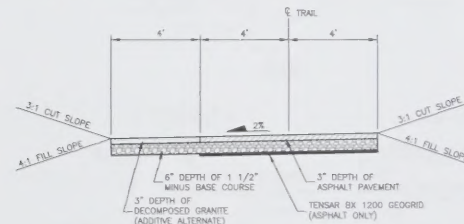
6 TYPICAL PERIMETER ROAD PAVEMENT SECTION

1/8" = 1' NOT TO SCALE



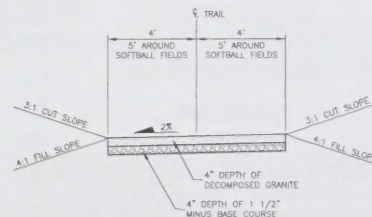
7 TYPICAL PERIMETER ROAD GRAVEL SECTION

1/8" = 1' NOT TO SCALE



8 TYPICAL ASPHALT TRAIL SECTION

1/8" = 1' NOT TO SCALE



9 TYPICAL DECOMPOSED GRANITE TRAIL SECTION

1/8" = 1' NOT TO SCALE

Centennial Park
DETAILS

CARL THUESEN

A S L A

GOLF COURSE ARCHITECTURE

LANDSCAPE ARCHITECTURE

1925 GRAND AVE, SUITE 105

P.O. BOX 22589

BILLINGS, MT 59104

406/252-5545 FAX 245-9855

Drawn by: PMA

Date: 3/1/10

Checked by: TKS

Date: 3/1/10

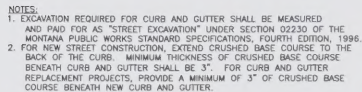
Rev: _____

Rev: _____

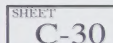
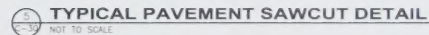
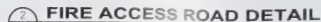
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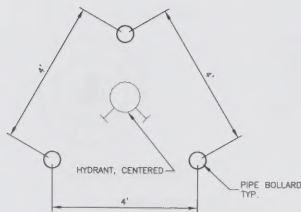
SHEET

C-30

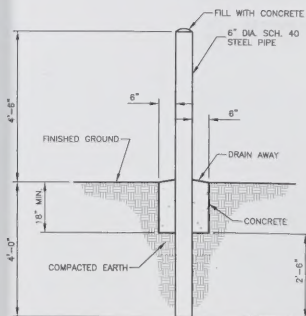


CURB
NOT TO SCALE





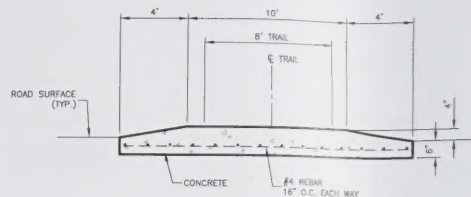
PLAN



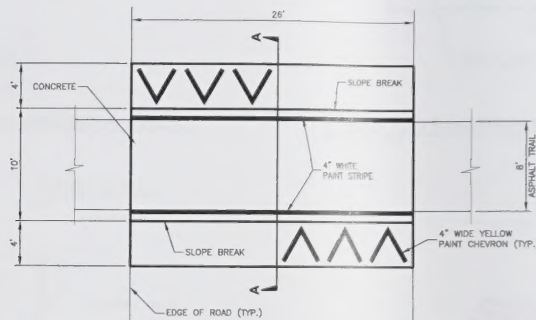
NOTE: PAINT ALL EXPOSED STEEL YELLOW PER SPEC.

SECTION

3 PIPE BOLLARD DETAIL
NOT TO SCALE

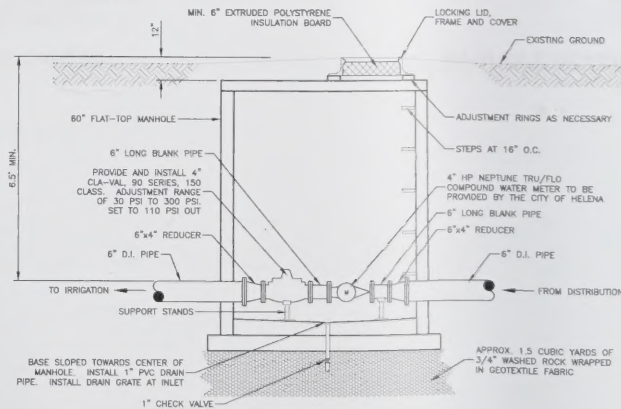


SECTION A-A

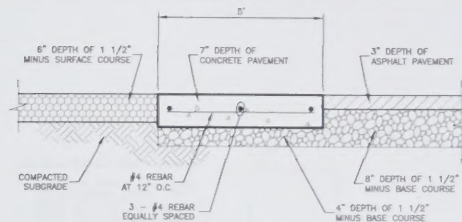


PLAN VIEW

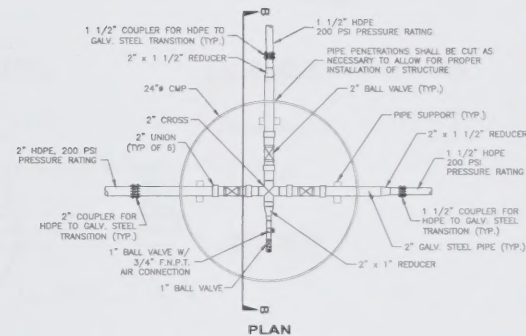
1 CONCRETE PEDESTRIAN TABLE CROSSING DETAIL
NOT TO SCALE



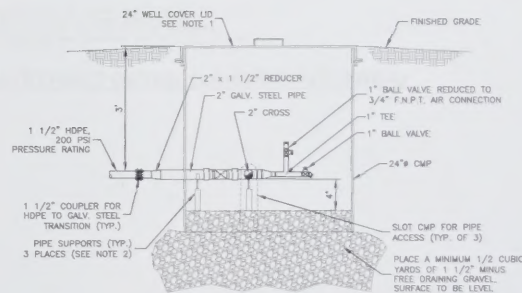
4 METER PIT DETAIL
NOT TO SCALE



CONCRETE TRANSITION STRIP DETAIL
NOT TO SCALE



PLAN



SECTION B-B

NOTES:

- CONTRACTOR TO PROVIDE STEEL ACCESS LID FOR 24-INCH DIAMETER CORRUGATED METAL PIPE AS MANUFACTURED BY ROSCOE STEEL OR APPROVED EQUAL. LID SHALL BE DESIGNED TO BE SECURED BY BOLTING OR 2 LOCKING HASPS. IF BOLTED, ALL BOLTS SHALL BE STAINLESS STEEL, PAINT DARK BROWN.
- PIPE SUPPORT BASES SHALL EITHER EXTEND TO UNDISTURBED SOIL OR HAVE 8" x 8" x 1/4" STEEL SUPPORT BASES TO SUPPORT PIPING.
- ALL VALVES AND FITTINGS SHALL HAVE A MINIMUM OF 200 PSI PRESSURE RATING.

3 BLOW-OUT VALVE BOX DETAIL
NOT TO SCALE

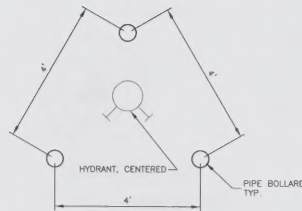


Centennial Park
DETAILS

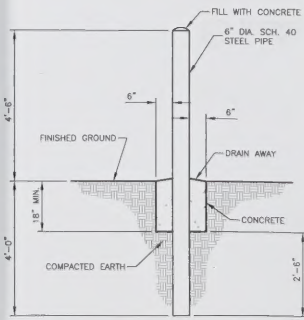
CARL THUESEN
A.S.A.
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1925 GRAND AVE. SUITE 100
P.O. BOX 22940
BILINGS, MT 16001
406/252-5581 FAX 245-9805

Drawn by: BAA
Date: 2/1/02
Checked by: TNS
Date: 2/1/02
Rev: _____
File: _____

SHEET
C-31

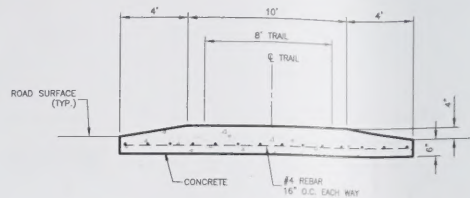


PLAN

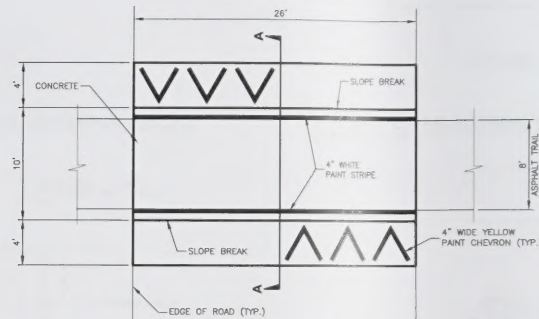


SECTION

PIPE BOLLARD DETAIL
NOT TO SCALE

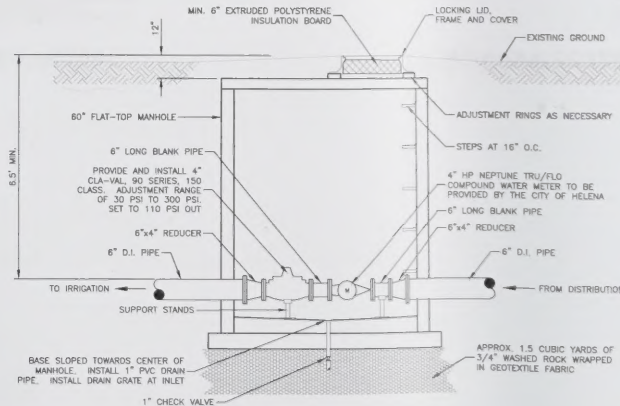


SECTION A-A

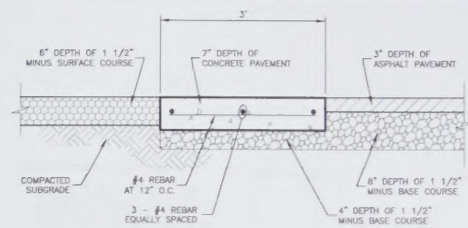


PLAN VIEW

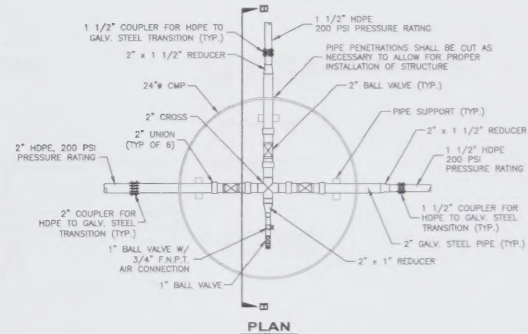
CONCRETE PEDESTRIAN TABLE CROSSING DETAIL
NOT TO SCALE



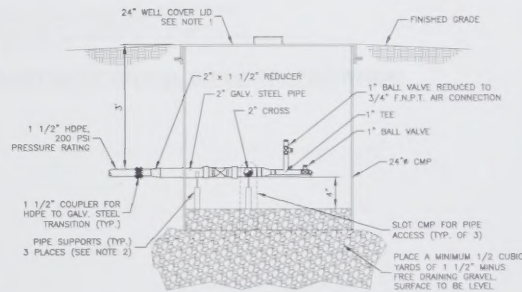
METER PIT DETAIL
NOT TO SCALE



CONCRETE TRANSITION STRIP DETAIL
NOT TO SCALE



PLAN



SECTION B-B

NOTES:

- CONTRACTOR TO PROVIDE STEEL ACCESS LID FOR 24-INCH DIAMETER CORRUGATED METAL PIPE AS MANUFACTURED BY ROSCOE STEEL OR APPROVED EQUAL. LID SHALL BE DESIGNED TO BE SECURED BY BOLTING OR 2 LOCKING WASPS. IF BOLTED, ALL BOLTS SHALL BE STAINLESS STEEL. PAINT LID DARK BROWN.
- PIPE SUPPORT BASES SHALL EITHER EXTEND TO UNDISTURBED SOIL OR HAVE 6" X 8" X 1/4" STEEL SUPPORT BASES TO SUPPORT PIPING.
- ALL VALVES AND FITTINGS SHALL HAVE A MINIMUM OF 200 PSI PRESSURE RATING.

BLOW-OUT VALVE BOX DETAIL
NOT TO SCALE

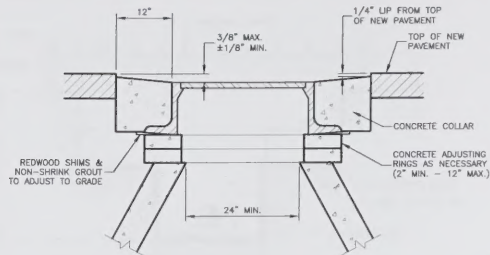


Centennial Park
DETAILS

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
THE GRANDVIEW SUITE 100
P.O. BOX 22946
BILLINGS, MT 59104
601/252-5545 FAX 245-9855

Drawn by: **BMA**
Date: **3/1/02**
Checked by: **TRG**
Date: **3/1/02**
Rev: _____
Rev: _____
File: _____

SHEET
C-31

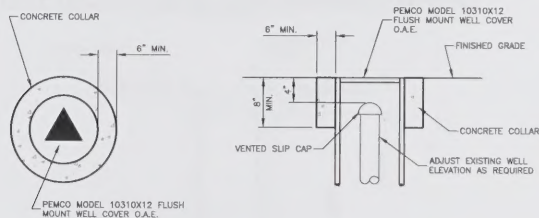


NOTES:

1. ADJUST MANHOLES UPWARD BY ADDING BARREL SECTIONS TO MATCH GRADE, THEN PLACING ADJUSTING RINGS UNDER FRAME.
2. ADJUST MANHOLE DOWNWARD BY REMOVING CONE AND BARREL SECTIONS AS NECESSARY AND REPLACING WITH SECTIONS OF LENGTH REQUIRED TO MATCH GRADE.
3. SLOPE MANHOLE FRAME AS REQUIRED TO MATCH SLOPE OF STREET.
4. FINAL MANHOLE ADJUSTMENT SHALL BE MADE AFTER PAVING.

1 MANHOLE COVER ADJUSTMENT DETAIL (VEHICLE AREA)

NOT TO SCALE

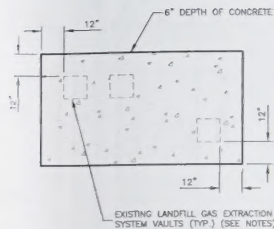


MONITORING WELL NOTES:

1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING WELL PROTECTOR FLUSH MOUNT VAULTS WITHOUT DAMAGE OR CONTAMINATION OF THE WELLS.
2. DAMAGE OR CONTAMINATION SHALL RESULT IN THE CONTRACTOR REPAIRING OR REPLACING THE WELL AT NO COST TO THE OWNER.

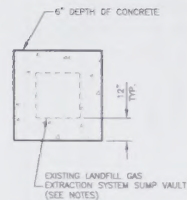
4 MONITORING WELL DETAIL

NOT TO SCALE



GAS EXTRACTION AND SUMP VAULT NOTES:

1. CONTRACTOR SHALL REMOVE EXISTING CONCRETE AROUND EXISTING VAULTS, REMOVE AND SALVAGE EXISTING VAULTS, ADJUST VAULTS TO MATCH FINISHED GRADES, AND PLACE NEW CONCRETE AS SHOWN ON THE DRAWINGS. REPLACE ANY EXISTING SEALS, AS NECESSARY.

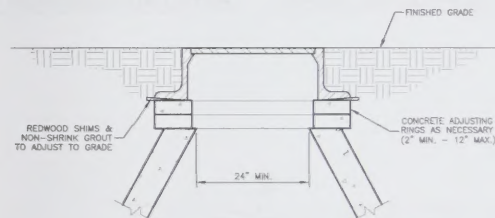


2 GAS EXTRACTION WELL DETAIL

NOT TO SCALE

3 SUMP ACCESS DETAIL

NOT TO SCALE



NOTES:

1. ADJUST MANHOLES UPWARD BY ADDING BARREL SECTIONS TO MATCH GRADE, THEN PLACING ADJUSTING RINGS UNDER FRAME.
2. ADJUST MANHOLE DOWNWARD BY REMOVING CONE AND BARREL SECTIONS AS NECESSARY AND REPLACING WITH SECTIONS OF LENGTH REQUIRED TO MATCH GRADE.

5 MANHOLE COVER ADJUSTMENT DETAIL (LANDSCAPED AREA)

NOT TO SCALE



Centennial Park
DETAILS

CARL THUESEN

A S I A

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE

1005 GRAND AVE. SUITE 100
P.O. BOX 12943
BILLINGS, MT 59104

406/252-0545 FAX 245-9053

Drawn by: BAA

Date: 2/1/10

Checked by: TKS

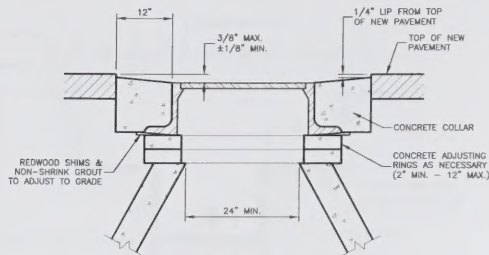
Date: 2/1/10

Rev: _____

File: _____

SHEET

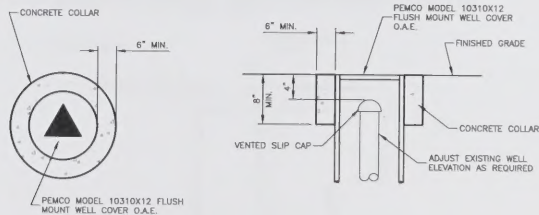
C-32



NOTES:

1. ADJUST MANHOLES UPWARD BY ADDING BARREL SECTIONS TO MATCH GRADE, THEN PLACING ADJUSTING RINGS UNDER FRAME.
2. ADJUST MANHOLE DOWNWARD BY REMOVING CONE AND BARREL SECTIONS AS NECESSARY AND REPLACING WITH SECTIONS OF LENGTH REQUIRED TO MATCH GRADE.
3. SLOPE MANHOLE FRAME AS REQUIRED TO MATCH SLOPE OF STREET.
4. FINAL MANHOLE ADJUSTMENT SHALL BE MADE AFTER PAVING.

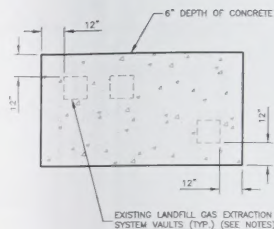
1 MANHOLE COVER ADJUSTMENT DETAIL (VEHICLE AREA)
NOT TO SCALE



MONITORING WELL NOTES:

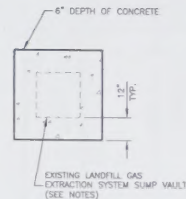
1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING WELL PROTECTOR FLUSH MOUNT VAULTS WITHOUT DAMAGE OR CONTAMINATION OF THE WELLS.
2. DAMAGE OR CONTAMINATION SHALL RESULT IN THE CONTRACTOR REPAIRING OR REPLACING THE WELL AT NO COST TO THE OWNER.

4 MONITORING WELL DETAIL
NOT TO SCALE



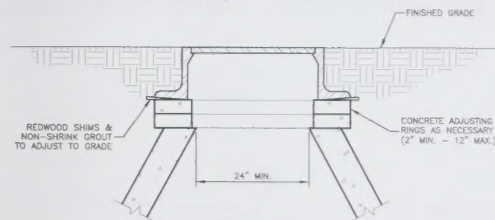
GAS EXTRACTION AND SUMP VAULT NOTES:

1. CONTRACTOR SHALL REMOVE EXISTING CONCRETE AROUND EXISTING VAULTS. REMOVE AND SALVAGE EXISTING VAULTS. ADJUST VAULTS TO MATCH FINISHED GRADES, AND PLACE NEW CONCRETE AS SHOWN ON THE DRAWINGS. REPLACE ANY EXISTING SEALS, AS NECESSARY.



2 GAS EXTRACTION WELL DETAIL
NOT TO SCALE

3 SUMP ACCESS DETAIL
NOT TO SCALE



NOTES:

1. ADJUST MANHOLES UPWARD BY ADDING BARREL SECTIONS TO MATCH GRADE, THEN PLACING ADJUSTING RINGS UNDER FRAME.
2. ADJUST MANHOLE DOWNWARD BY REMOVING CONE AND BARREL SECTIONS AS NECESSARY AND REPLACING WITH SECTIONS OF LENGTH REQUIRED TO MATCH GRADE.

1 MANHOLE COVER ADJUSTMENT DETAIL (LANDSCAPED AREA)
NOT TO SCALE



Centennial Park
DETAILS

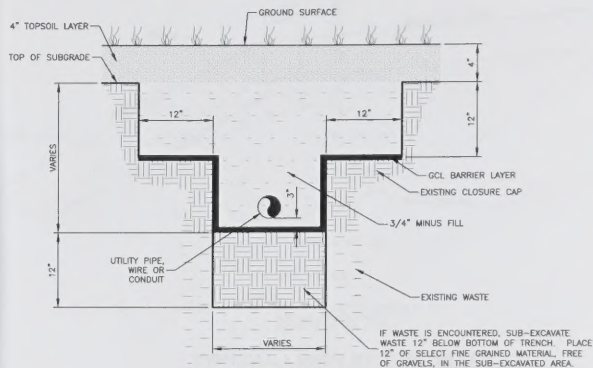
CARL THUESEN
A S I A

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE

1025 GRAND AVE. SUITE 105
P.O. BOX 22943
BIRMINGHAM, AL 35202
205/252-0548 FAX 205-8853

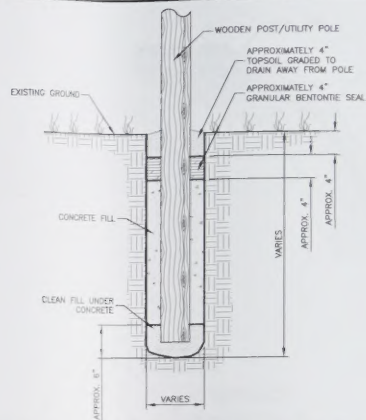
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Date: 2/1/10
Checked by: TKS
Date: 2/1/10
Rev: _____
Rev: _____
File: _____

SHEET
C-32



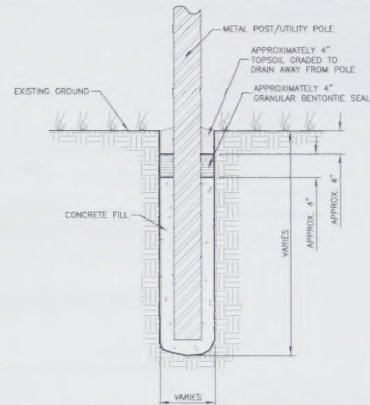
UTILITY TRENCH DETAIL (ENCOUNTERED WASTE)

NOT TO SCALE



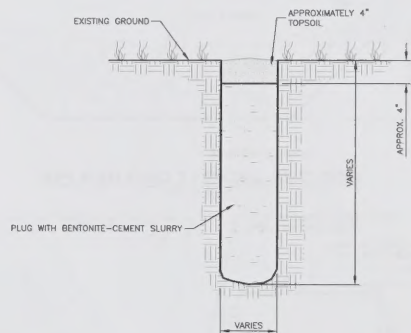
TYPICAL WOODEN POST PENETRATION DETAIL

NOT TO SCALE



TYPICAL METAL POST PENETRATION DETAIL

NOT TO SCALE



TYPICAL POST HOLE REMEDIATION DETAIL

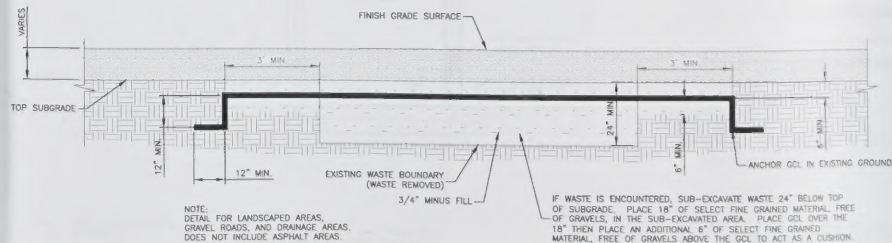
NOT TO SCALE

3/4" MINUS FILL GRADATION

SIZE	% PASSING
3"	100
No. 4	80-100
No. 200	15-40

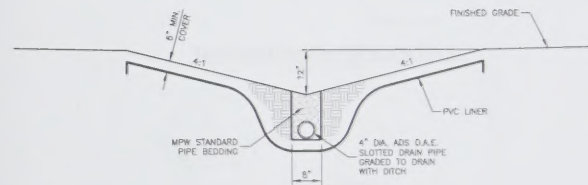
SELECT FINE GRAINED MATERIAL

SIZE	% PASSING
3"	100
No. 4	95
No. 40	85
No. 200	40



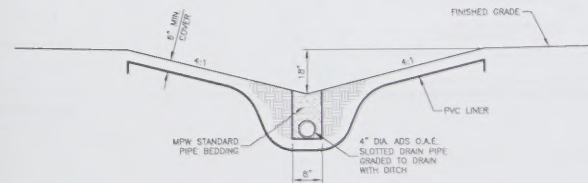
TYPICAL GRADING DETAIL (ENCOUNTERED WASTE)

NOT TO SCALE



TYPICAL TYPE 1 DITCH SECTION

NOT TO SCALE



TYPICAL TYPE 2 DITCH SECTION

NOT TO SCALE

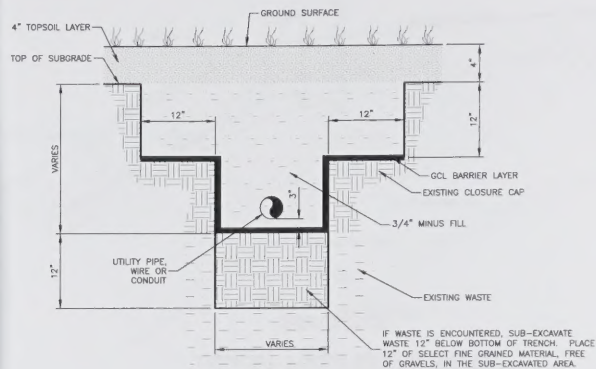


**Centennial Park
LANDFILL CLOSURE
DETAILS**

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
100 GRAND AVE. SUITE 100
P.O. BOX 2240
BILLINGS, MT 59101
406.242.5540 FAX 242.9615

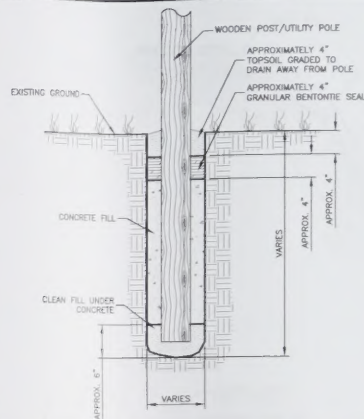
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Date: 2/1/10
Checked by: TRS
Date: 2/1/10
Rev: _____
File: _____

**SHEET
C-33**



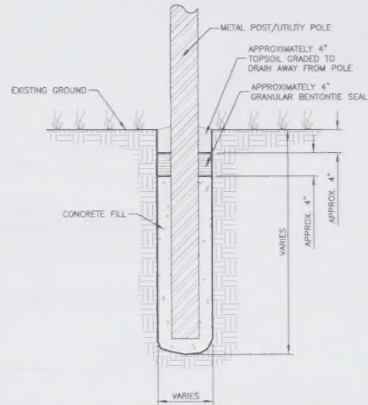
UTILITY TRENCH DETAIL (ENCOUNTERED WASTE)

NOT TO SCALE



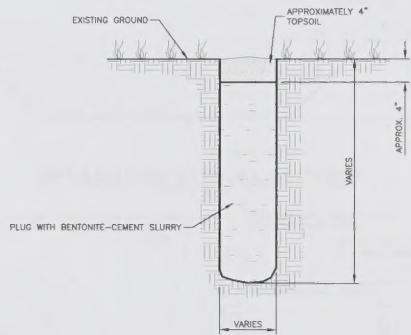
TYPICAL WOODEN POST PENETRATION DETAIL

NOT TO SCALE



TYPICAL METAL POST PENETRATION DETAIL

NOT TO SCALE



TYPICAL POST HOLE REMEDIATION DETAIL

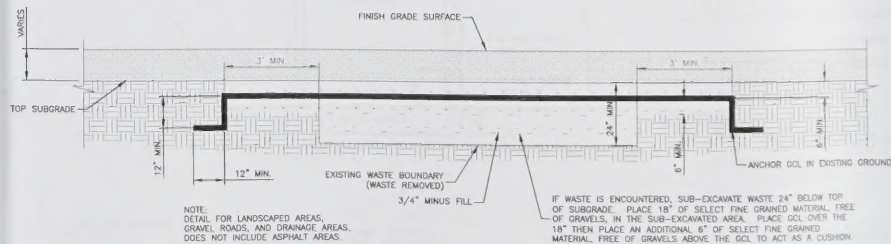
NOT TO SCALE

3/4" MINUS FILL GRADATION

SIZE	% PASSING
2"	100
No. 4	100
No. 200	15-40

SELECT FINE GRAINED MATERIAL

SIZE	% PASSING
2"	100
No. 4	95
No. 40	80
No. 200	40

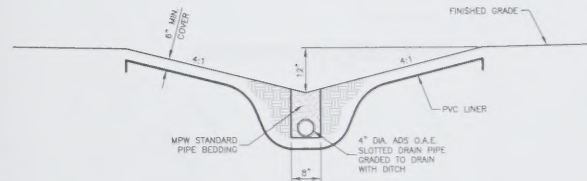


NOTE:
DETAIL FOR LANDSCAPED AREAS,
GRAVEL ROADS, AND GRASSY AREAS.
DOES NOT INCLUDE ASPHALT AREAS.

IF WASTE IS ENCOUNTERED, SUB-EXCAVATE WASTE 24" BELOW TOP OF SUBGRADE. PLACE 18" OF SELECT FINE GRAINED MATERIAL, FREE OF GRAVELS, IN THE SUB-EXCAVATED AREA. PLACE GCL OVER THE 18" THEN PLACE AN ADDITIONAL 6" OF SELECT FINE GRAINED MATERIAL, FREE OF GRAVELS ABOVE THE GCL TO ACT AS A CUSHION.

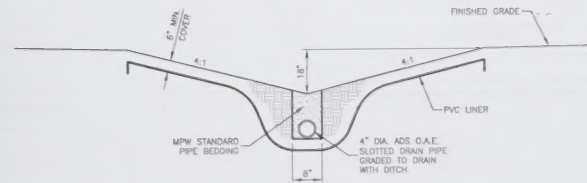
TYPICAL GRADING DETAIL (ENCOUNTERED WASTE)

NOT TO SCALE



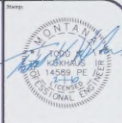
TYPICAL TYPE 1 DITCH SECTION

NOT TO SCALE



TYPICAL TYPE 2 DITCH SECTION

NOT TO SCALE



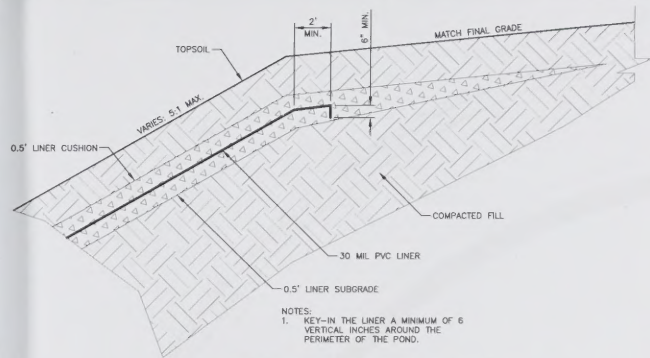
**Centennial Park
LANDFILL CLOSURE
DETAILS**

CARL THUESEN
A S E A

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
101 GRAND AVENUE, SUITE 100
BILLINGS, MT 59101
406/232-5545 FAX 215-4055

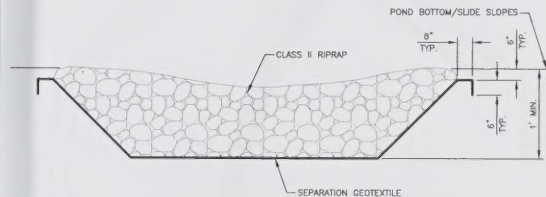
Drawn by: BAA
Date: 2/1/10
Checked by: THS
Date: 2/1/10
Rev: _____
File: _____

SHEET
C-33



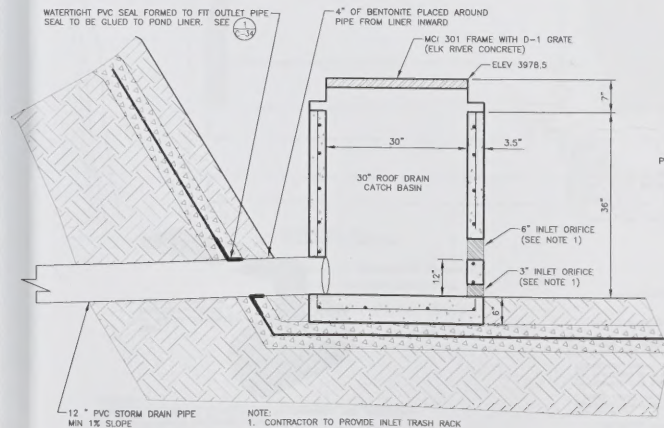
TYPICAL LINER KEY-IN DETAIL

NOT TO SCALE



SPLASH PAD TYPICAL SECTION

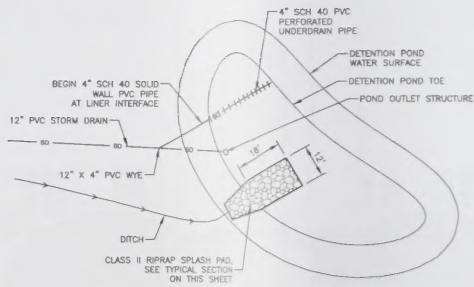
NOT TO SCALE



NOTE:
1. CONTRACTOR TO PROVIDE INLET TRASH RACK FABRICATED FROM #4 REBAR. RACK SHALL HAVE MAXIMUM OPENING SIZES OF ONE INCH.

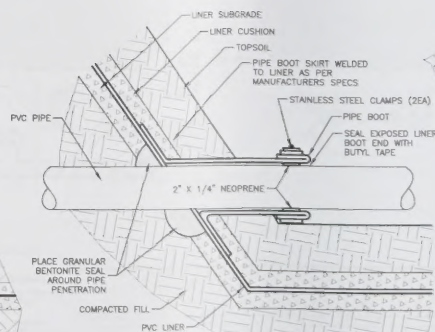
OUTLET STRUCTURE AND PIPING

NOT TO SCALE



POND OUTLET PIPING DETAIL

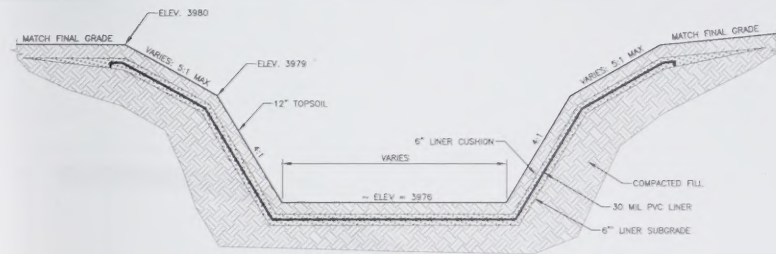
NOT TO SCALE



NOTES:
1. PREFORM PIPE BOOT AS SHOWN
2. ALL LINER PENETRATIONS TO BE AS PER MANUFACTURERS SPECIFICATIONS

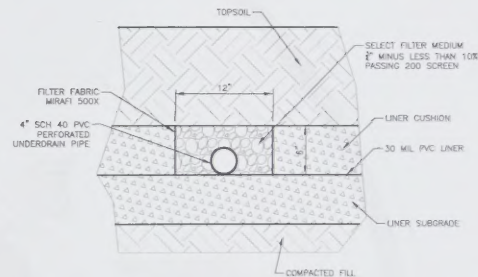
LINER PENETRATION DETAIL

NOT TO SCALE



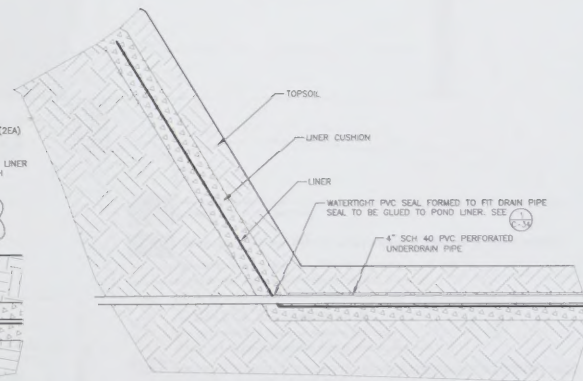
TYPICAL POND SECTION

NOT TO SCALE



UNDERDRAIN PIPE DETAIL

NOT TO SCALE



NOTES:
1. PLACE UNDERDRAIN PIPE WITHIN CUSHION SECTION.

UNDERDRAIN PIPING

NOT TO SCALE

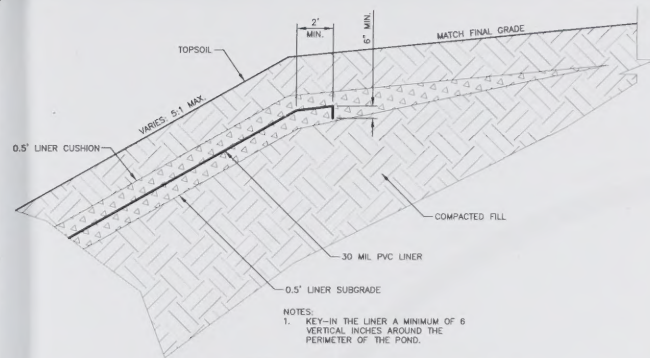
Centennial Park
STORMWATER DETENTION
POND DETAILS

CARL THUESEN
A S L A

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1932 GRAND AVE. SUITE 105
P.O. BOX 2940
BELLINGHAM, WA 98220
360/732-5545 FAX 360-9805

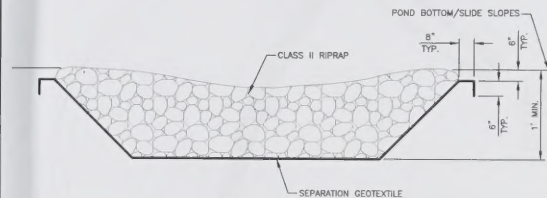
Drawn by: PAA
Date: 2/1/02
Checked by: TNS
Date: 2/1/02
Rev: _____
Rev: _____
File: _____

SHEET
C-34



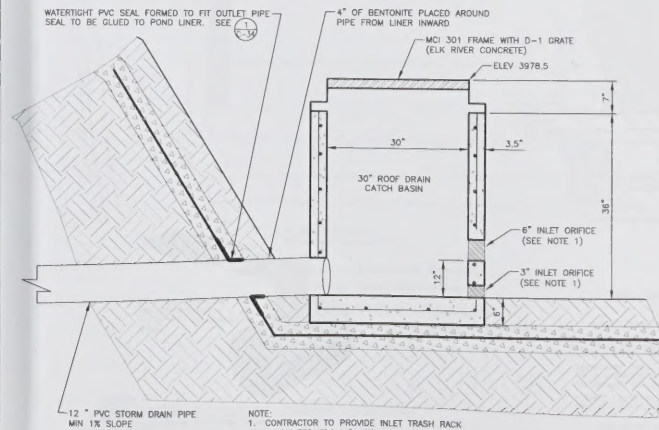
TYPICAL LINER KEY-IN DETAIL

NOT TO SCALE



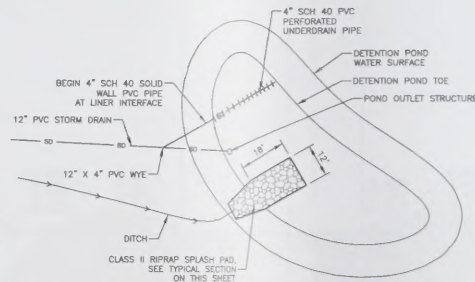
SPLASH PAD TYPICAL SECTION

NOT TO SCALE



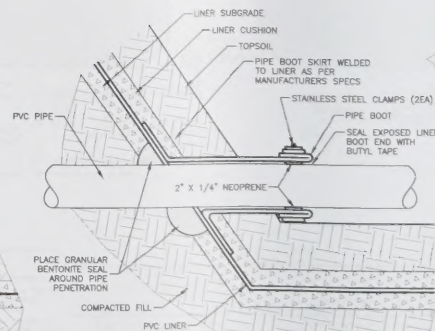
OUTLET STRUCTURE AND PIPING

NOT TO SCALE



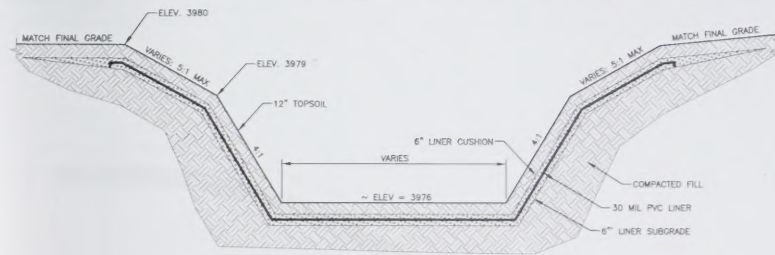
POND OUTLET PIPING DETAIL

NOT TO SCALE



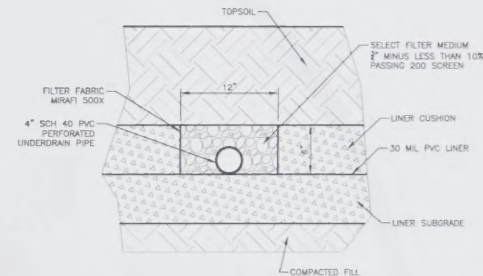
LINER PENETRATION DETAIL

NOT TO SCALE



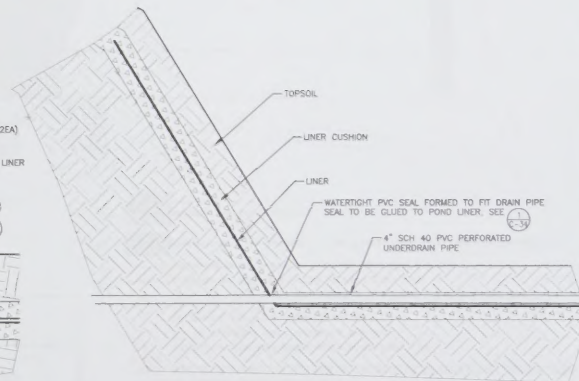
TYPICAL POND SECTION

NOT TO SCALE



UNDERDRAIN PIPE DETAIL

NOT TO SCALE



NOTES:
1. PLACE UNDERDRAIN PIPE WITHIN CUSHION SECTION.

UNDERDRAIN PIPING

NOT TO SCALE



Centennial Park
STORMWATER DETENTION
POND DETAILS

CARL THUESEN
A S L A

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE

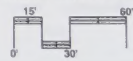
1828 GRAND AVE. SUITE 100
P.O. BOX 2960
BILLINGS, MT 16901
601/252-0545 FAX 165-9805

Drawn by: DAA
Date: 2/1/02
Checked by: JNS
Date: 2/1/02
Rev:
File:

SHEET
C-34

2925 GRAND AVE. SUITE 105
P.O. BOX 22943
BILLINGS, MT 59104
406/252-5545 FAX 245-9855

S-100)



NOT TO SCALE

Longitudinal

Centennial Park
SOFTBALL FIELD
CONSTRUCTION PLAN

CARL THUESEN
A S L A

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE

1925 GRAND AVE. SUITE 105
P.O. BOX 22943
BILLINGS, MT 59104
406/252-5545 FAX 245-9855

Drawn by: _____ GSC

Date: IV/20/09

Checked by: NGS

Date: 11/20/09

Rev: 2/1/10

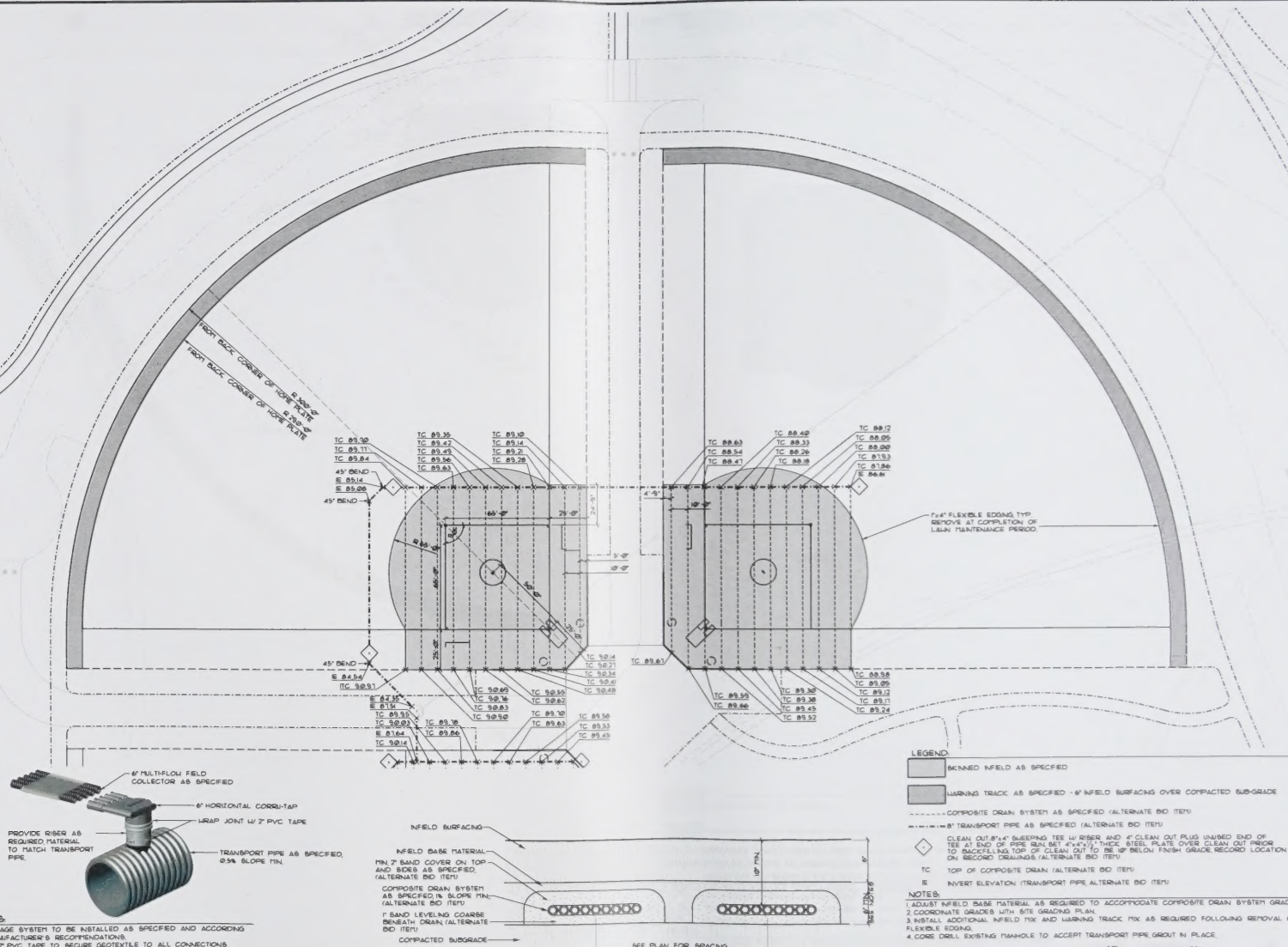
Rev: _____

File: CD 9-0017 9-100-50PT.DCH

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C 100

S-100



1 INFIELD COLLECTOR TO TRANSPORT DETAIL (ALT. BID ITEM) NOT TO SCALE

2 INFIELD DRAINAGE SYSTEM AND SKINNED INFIELD SECTION

NOT TO SCALE



Centennial Park
SOFTBALL FIELD
CONSTRUCTION PLAN

CARL THUESEN
A S L A

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1325 GRAND AVE. SUITE 105
P.O. BOX 2044
BILLINGS, MT 59104
406/252-5543 FAX 252-9855

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Date: 11/20/09
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Date: 11/20/09
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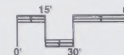
SHEET
S-101

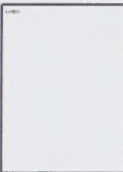
LEGEND:

- SCANNED INFIELD AS SPECIFIED
- WARNING TRACK AS SPECIFIED - 8" INFIELD SURFACING OVER COMPACTED SUB-GRADE
- COMPOSITE DRAIN SYSTEM AS SPECIFIED (ALTERNATE BID ITEM)
- 8" TRANSPORT PIPE AS SPECIFIED (ALTERNATE BID ITEM)
- CLEAN OUT 8"x4" SLEEPING TEE W/ RIBBER AND 4" CLEAN OUT PLUG UNSEED END OF TEE AT END OF PIPE RUN SET 4"x4"x1/2" THICK STEEL PLATE OVER CLEAN OUT PRIOR TO BACKFILLING TOP OF CLEAN OUT TO BE UP-BELOW FINISH GRADE RECORD LOCATION ON RECORD DRAINAGE (ALTERNATE BID ITEM)
- TOP OF COMPOSITE DRAIN (ALTERNATE BID ITEM)
- INVERT ELEVATION (TRANSPORT PIPE ALTERNATE BID ITEM)

NOTES:

1. ADJUST INFIELD BASE MATERIAL AS REQUIRED TO ACCOMMODATE COMPOSITE DRAIN SYSTEM GRADE.
2. COORDINATE GRADES WITH SITE GRADING PLAN.
3. INSTALL ADDITIONAL INFIELD MIX AND WARNING TRACK MIX AS REQUIRED FOLLOWING REMOVAL OF FLEXIBLE EDGING.
4. CORE DRILL EXISTING MANHOLE TO ACCEPT TRANSPORT PIPE GROUT IN PLACE.





CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1925 GRAND AVE. SUITE 105
P.O. BOX 22943
BILLINGS, MT 59104
406/252-5545 FAX 245-9855

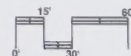


SHEET
S-101



- NOTE 6:

1. ADJUST INFIELD BASE MATERIAL AS REQUIRED TO ACCOMMODATE COMPOSITE DRAIN SYSTEM GRADE
2. COORDINATE GRADES WITH SITE GRADING PLAN.
3. INSTALL ADDITIONAL INFIELD MIX AND WARNING TRACK MIX AS REQUIRED FOLLOWING REMOVAL OF FLEXIBLE EDGING.
4. CORE DRILL EXISTING MANHOLE TO ACCEPT TRANSPORT PIPE GROUT IN PLACE.





DATE: _____

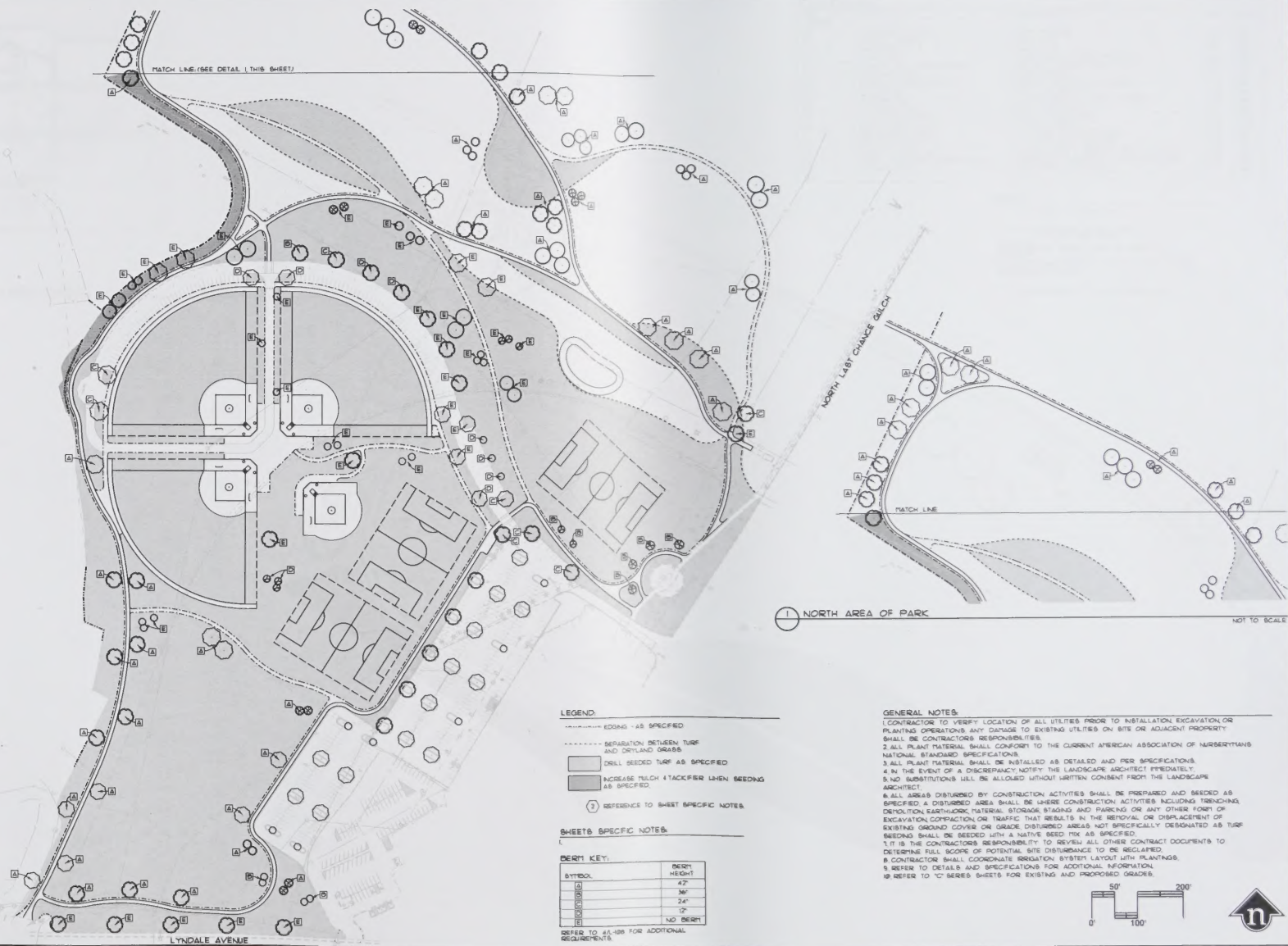
Centennial Park OVERALL PLANTING PLAN

CARL THUSEN
A S I A

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1335 GRAND AVE. SUITE 105
P.O. BOX 2248
BILLYEUX, NY 10804
405/252-5540 FAX 252-9555

Drawn by: CSC
Date: 11/20/02
Checked by: NGS
Date: 11/20/02
Rev: 2/11/03
Rev: _____
File: 102 SHEET 1 OF 10 PLANTING

SHEET
L-100





Centennial Park
OVERALL PLANTING PLAN

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1815 GRAND AVE. SUITE 100
PO BOX 22940
BILINGS, MT 16004
(406) 325-1543 FAX 325-9555

Drawn by: GSC
Date: 1/20/09
Checked by: NGS
Date: 1/20/09
Rev: 2/1/10
Rev: -
File: 01-0001-0001-0001

SHEET
L-100



NORTH LAST CHANCE GULCH

1 NORTH AREA OF PARK

NOT TO SCALE

- LEGEND**
- EDGING - AS SPECIFIED
 - SEPARATION BETWEEN TURF AND ORCHARD GRASS
 - DRILL SEEDED TURF AS SPECIFIED
 - INCREASE PULCH TACKLER WHEN SEEDING AS SPECIFIED
 - 2 REFERENCE TO SHEET SPECIFIC NOTES

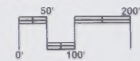
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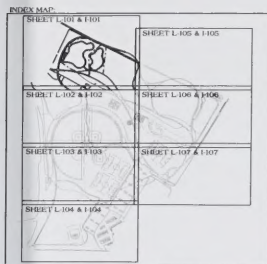
BERT KEY:

SYMBOL	DEPTH HEIGHT
A	42"
B	36"
C	24"
D	12"
E	NO BERT

REFER TO 41-08 FOR ADDITIONAL REQUIREMENTS.

- GENERAL NOTES:**
1. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO INSTALLATION, EXCAVATION OR PLANTING OPERATIONS. ANY DAMAGE TO EXISTING UTILITIES ON SITE OR ADJACENT PROPERTY SHALL BE CONTRACTORS RESPONSIBILITY.
 2. ALL PLANT MATERIAL SHALL CONFORM TO THE CURRENT AMERICAN ASSOCIATION OF NURSERYMEN'S NATIONAL STANDARD SPECIFICATIONS.
 3. ALL PLANT MATERIAL SHALL BE INSTALLED AS DETAILED AND PER SPECIFICATIONS.
 4. IN THE EVENT OF A DISCREPANCY NOTIFY THE LANDSCAPE ARCHITECT IMMEDIATELY.
 5. NO SUBSTITUTIONS WILL BE ALLOWED WITHOUT WRITTEN CONSENT FROM THE LANDSCAPE ARCHITECT.
 6. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE PREPARED AND SEEDING AS SPECIFIED. A DISTURBED AREA SHALL BE WHERE CONSTRUCTION ACTIVITIES INCLUDING TRENCHING, DEPOSITION, EARTHWORK, MATERIAL STORAGE, STAGING AND PARKING OR ANY OTHER FORM OF EXCAVATION, CONSTRUCTION OR TRAFFIC THAT RESULTS IN THE REMOVAL OR DISPLACEMENT OF EXISTING GROUND COVER OR GRADE. DISTURBED AREAS NOT SPECIFICALLY DESIGNATED AS TURF SEEDING SHALL BE SEEDING WITH A NATIVE SEED MIX AS SPECIFIED.
 7. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW ALL OTHER CONTRACT DOCUMENTS TO DETERMINE FULL SCOPE OF POTENTIAL SITE DISTURBANCE TO BE RECLAIMED.
 8. CONTRACTOR SHALL COORDINATE IRRIGATION SYSTEM LAYOUT WITH PLANTINGS.
 9. REFER TO DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 10. REFER TO "C" SERIES SHEETS FOR EXISTING AND PROPOSED GRADES.





SHEET SPECIFIC NOTES:

PLANT SCHEDULE

KEY	QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT
TREES					
CS		COLORADO SPRUCE	PICEA PARVENS	5-6"	END
NB		NORWAY SPRUCE	PICEA ABIES	5-6"	END
AP		AUSTRIAN PINE	PIUS NODI	5-6"	END
AM		AMUR MAPLE	ACER GINALE PLATE (MULTI-STEM)	1 1/2"	END
CR		CANADA RED CHOKECHERRY	PRINUS VIRGINIANA 'CANADA RED'	1 1/2"	END
TH		TATIANA MAPLE	ACER TATSIKOFF	1 1/2"	END
CU		BOUQUANT COTTONWOOD	POPULUS DELTOIDES 'BOUQUANT'	2 1/2"	END
HB		HACKBERRY	CELTIS OCCIDENTALIS	2 1/2"	END
PA		PATTORE AWH	FRAXINUS PRINCEPS/VANICA 'PATTORE'	2 1/2"	END
PC		PRAIRIE FIRE GRASS	HALUS 'PRAIRIE FIRE'	1 1/2"	END
SB		SPRING BURN GRASS	HALUS 'SPRING BURN'	1 1/2"	END
BO		BURNING WHITE OAK	QUERCUS BICOLOR	2 1/2"	END
GL		GREENSPRING LINDEN	TILIA CORDATA 'GREENSPRING'	2 1/2"	END
BL		BELMONT LINDEN	TILIA AMERICANA 'BELMONT'	2 1/2"	END
EL		ELM GLOSSY ELM	ULMUS GLABRA X TRUMPET 'ELM GLOSSY'	2 1/2"	END
HC		AUTUMN SPLENDOR HORSECHESNUT	AESCULUS X ARNOLDIANA 'AUTUMN SPLENDOR'	2 1/2"	END
TD		TRIDENT TREE	PRINUS PADUS COMPOSITA	1 1/2"	END

LEGEND

- EDGING - AS SPECIFIED
- SEPARATION BETWEEN TURF AND DRYLAND GRASS
- DRILL BEDED TURF - AS SPECIFIED
- INCREASE MULCH + TOPDRESS WHEN BEDDING AS SPECIFIED
- (2) REFERENCE TO SHEET SPECIFIC NOTES

Centennial Park PLANTING PLAN

CARL THUESEN
A S L A

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE

1921 GRAND AVE. SUITE 100
P.O. BOX 2094
BILLING, MT 59106
(406) 253-5545 FAX 253-9055

Drawn by: GSC

Date: 11/20/09

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Date: 11/20/09

Rev: 2/1/10

Rev: -

File: 02 SHEET L-101 PLANTING

SHEET
L-101



Centennial Park PLANTING PLAN

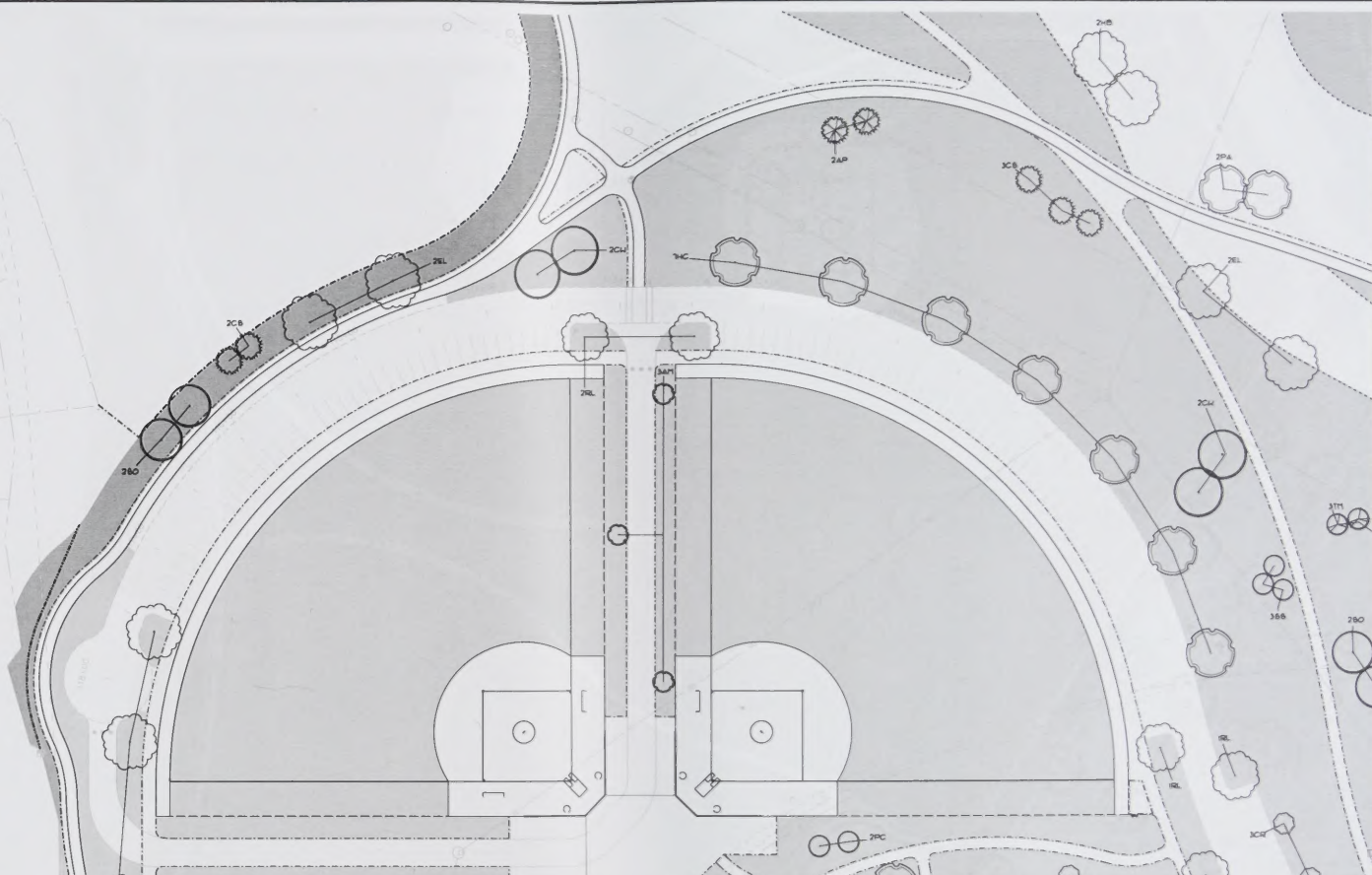
CARL THUSEN
A S L A

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE

395 GRAND AVE. SUITE 100
PO BOX 12943
BILLINGS, MT 59101
(406) 252-0045 FAX 252-9615

Drawn by: GSC
Date: 11/20/09
Checked by: NGS
Date: 11/20/09
Rev: 2/1/10
Rev: -
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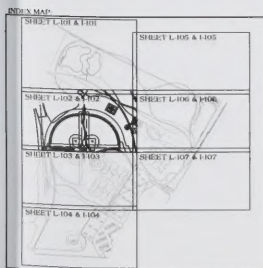
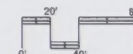
SHEET
L-102



PLANT SCHEDULE:				
KEY	QTY	COMMON NAME	BOTANICAL NAME	SIZE
TREES				
CB		COLORADO SPRUCE	PICEA PARSONS	3-4' 5D
NB		NORWAY SPRUCE	PICEA ABIES	3-4' 5D
AP		AUSTRIAN PINE	PINUS NIGRA	3-4' 5D
AM		ATLANTIC MAPLE	ACER GINNALA 'FLAME' (MULTI-STEM)	1-1/2' 5D
CA		CANADA RED CHOCOCERRY	PRUNUS VIRGINIANA 'CANADA RED'	1-1/2' 5D
TA		TATARIAN MAPLE	ACER TATARICUM	1-1/2' 5D
CU		BACKLAND COTTONWOOD	POPULUS DELTOIDES 'BACKLAND'	2-1/2' 5D
HB		HACKBERRY	CILTS OCCIDENTALIS	2-1/2' 5D
PA		PATRIOTIC ASH	FRAXINUS PENNSYLVANICA 'PATRIOTIC'	2-1/2' 5D
PC		PRAIRIE FIRE GRASS	MILVUS 'PRAIRIE FIRE'	1-1/2' 5D
SB		SPRING BLOOM GRASS	MILVUS 'SPRING BLOOM'	1-1/2' 5D
BO		BURIAL WHITE OAK	QUERCUS BICOLOR	2-1/2' 5D
GL		GREENSPRING LINDEN	TELA CORONATA 'GREENSPRING'	2-1/2' 5D
BL		BELMONT LINDEN	TELA AMERICANA 'BELMONT'	2-1/2' 5D
EL		ELMORTON GLOBBY ELM	ULMUS GLABRA X TRIUMPH 'ELMORTON GLOBBY'	2-1/2' 5D
HC		AUTUMN SPLENDOR HORSECHESNUT	AESCULUS X ARNOLDIANA 'AUTUMN SPLENDOR'	2-1/2' 5D
TD		TRUMPET TREES	PRUNUS PADUS CORNUTATA	1-1/2' 5D

- LEGEND:**
- EDGING - AS SPECIFIED
 - SEPARATION BETWEEN TURF AND DRYLAND GRASS
 - DRILL BEDED TURF AS SPECIFIED
 - INCREASE MULCH 4 INCHES WHEN BEEDING AS SPECIFIED
 - REFERENCE TO SHEET SPECIFIC NOTES

SHEET SPECIFIC NOTES



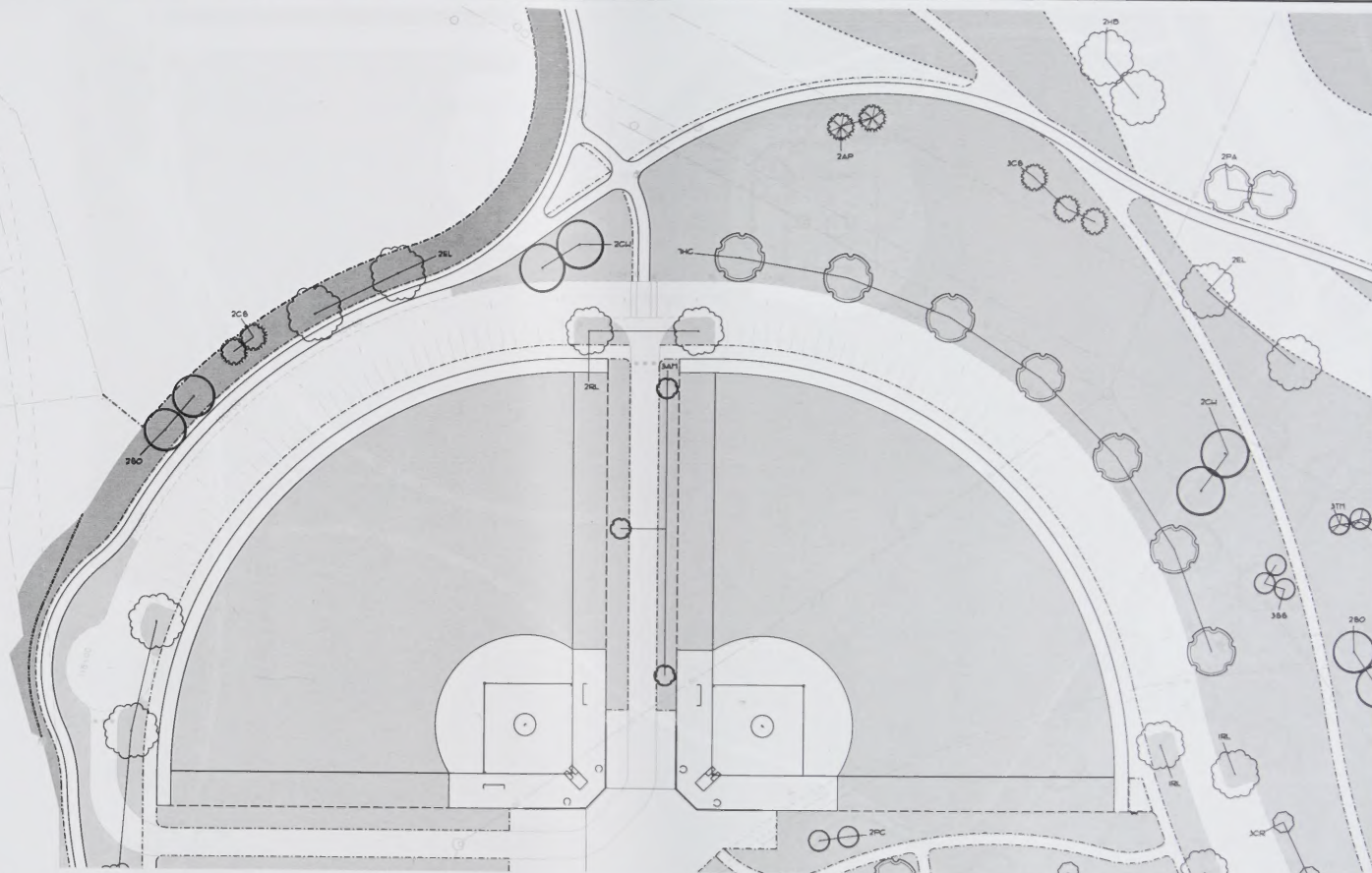


Centennial Park PLANTING PLAN

CARL THUSEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
100 GRAND AVENUE SUITE 100
P.O. BOX 22451
BILLINGS, MT 59104
(406) 251-5847 FAX 251-9555

Drawn by: GSC
Date: 11/28/09
Checked by: NGS
Date: 11/28/09
Rev: 2/1/10
Rev: -
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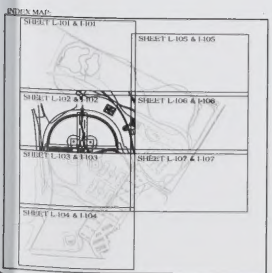
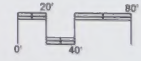
SHEET
L-102

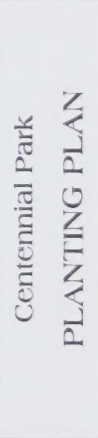


PLANT SCHEDULE				
KEY	QTY	COTTON NAME	BOTANICAL NAME	SIZE
TREES				ROOT
CA		COLORADO SPRUCE	PICEA PARSONS	5-6' DB
NB		NORWAY SPRUCE	PICEA ABIES	5-6' DB
AP		AUSTRIAN PINE	PAULUS NIGRA	5-6' DB
AT		ATLANTIC MAPLE	ACER GINNALA FLAME (MULTI-STEM)	10-12' DB
CR		CANADA RED CHOKECHERRY	PRUNUS VIRGINIANA CANADA RED	10-12' DB
TM		TATARIAN MAPLE	ACER TATARICUM	10-12' DB
CO		BOURBON COTTONWOOD	POPULUS DELTOIDES BOURLAND	2-1/2' DB
HA		HACKBERRY	CELTIS OCCIDENTALIS	2-1/2' DB
PA		PATRONS ASH	FRAXINUS PENNSYLVANICA PATRONS	2-1/2' DB
PC		PRINCETON CRAB	PAULUS PRINCETONENSE	10-12' DB
BB		BURR WHITE OAK	QUERCUS BICOLOR	2-1/2' DB
GO		GREENSPRING LINDEN	TELMUS CORONATA GREENSPRING	2-1/2' DB
RL		RED LINDEN	TELMUS AMERICANA REDMOND	2-1/2' DB
BL		BURR WHITE OAK	QUERCUS BICOLOR	2-1/2' DB
HC		HORTON GLOBE ELM	ULMUS GLABRA X TRUPPEN HORTON GLOBE	2-1/2' DB
MD		MAYDAY TREE	PRUNUS PADUS COMPOSITA	10-12' DB

- LEGEND**
- EDGING - AS SPECIFIED
 - SEPARATION BETWEEN TURF AND DRYLAND GRASS
 - DRILL SEEDING TURF AS SPECIFIED
 - INCREASE MULCH 4 TACKLER WHEN SEEDING AS SPECIFIED
 - REFERENCE TO SHEET SPECIFIC NOTES

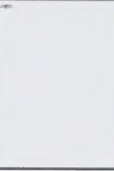
SHEET SPECIFIC NOTES:





SHEET
L-103





CARL THUESEN
A S L A

P.O. BOX 22943
BILLINGS, MT 59104
406/252-5545 FAX 245-9855

File: CD SHEET LABS-PLANT.DCH

L-103)

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Centennial Park PLANTING PLAN

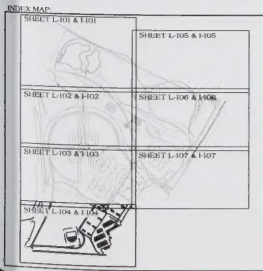
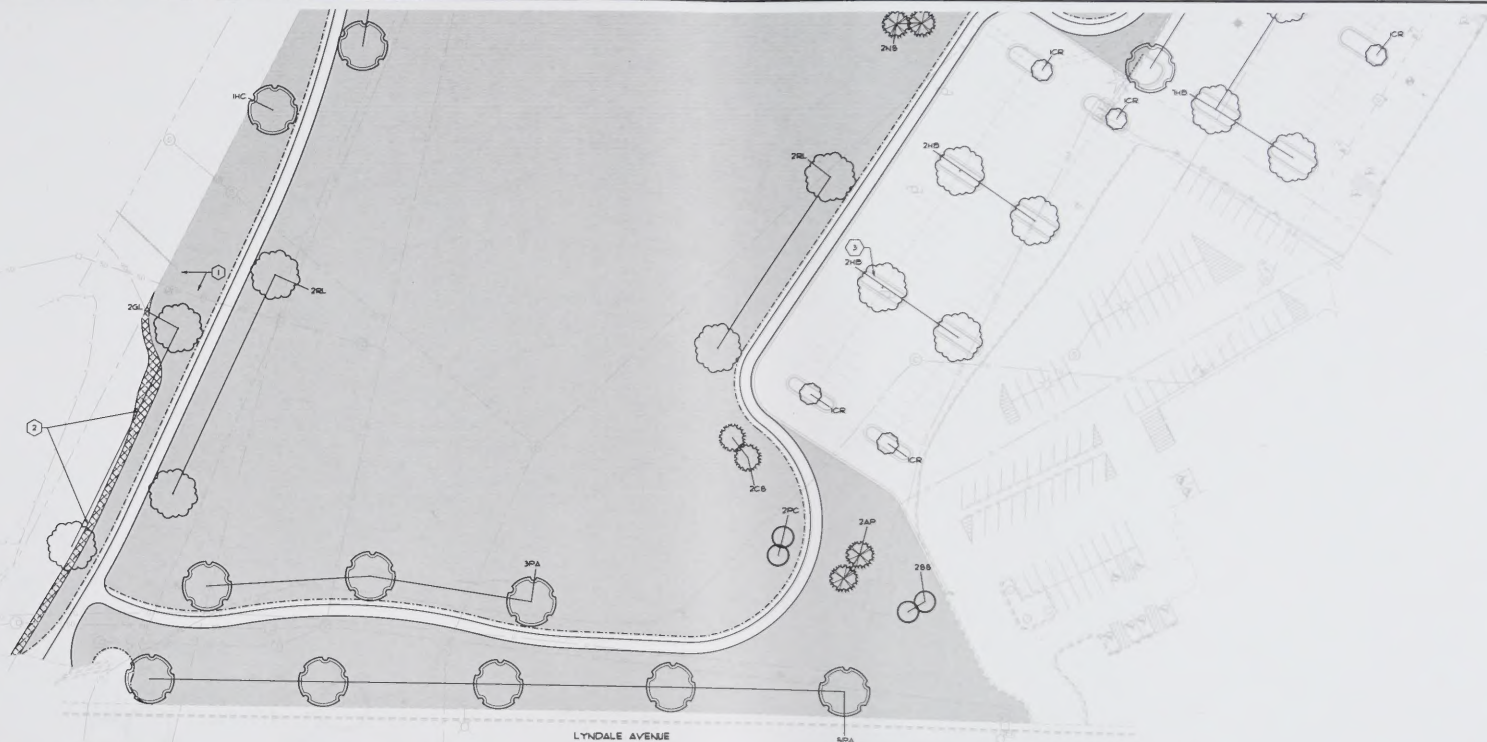
CARL THUESEN
A S L A

GOSS CONCRETE ARCHITECTURE
LANDSCAPE ARCHITECTURE

303 GRAND AVE. SUITE 200
P.O. BOX 2280
BILLINGS, MT 59103
(406) 592-1234 FAX (406) 592-1235

Drawn by: CSC
Date: 11/28/09
Checked by: NGS
Date: 11/28/09
Rev: 2/1/10
Rev: -
File: 02 SHEET L-107-PLANT.DGN

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L-104

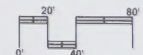


KEY	QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT
TREES					
CB		COLORADO SPRUCE	PICEA PARVENS	5-6'	D&D
NS		NORWAY SPRUCE	PICEA ADAMS	5-6'	D&D
AP		AUSTRIAN PINE	PNUS NIGRA	5-6'	D&D
AT		ATLANTIC MAPLE	ACER SPINOSA 'ATLANTIC'	10-12'	D&D
CR		CANADA RED CHOKECHERRY	PRUNUS VIRGINIANA 'CANADA RED'	10-12'	D&D
TH		TATARIAN MAPLE	ACER TATARICUM	10-12'	D&D
GA		BOUKLAND COTTONWOOD	POPULUS DELTOIDES 'BOUKLAND'	2-3'	D&D
HB		HACKBERRY	CELTIS OCCIDENTALIS	2-3'	D&D
PA		PATMORE ALB	FRAXINUS PENNSYLVANICA 'PATMORE'	2-3'	D&D
FC		FLORISSANT CATALPA	PAULUS FLORISSANT	10-12'	D&D
BO		BONAPARTE WHITE OAK	PAULUS BONAPARTE	10-12'	D&D
GL		GREENSPRING LINDEN	TELA CORONATA 'GREENSPRING'	2-3'	D&D
BL		REDFORD LINDEN	TELA AMERICANA 'REDFORD'	2-3'	D&D
EL		PORTON GLOSSY ELM	ULMUS GLABRA X TRUBERT 'PORTON GLOSSY'	2-3'	D&D
HC		AUTUMN SPLENDOR HORSECHESNUT	AESCULUS X ARNOLDIANA 'AUTUMN SPLENDOR'	2-3'	D&D
PD		PLAYDAY TREES	PRUNUS PADUS COMPOSITA	10-12'	D&D

- LEGEND**
- EDGING - AS SPECIFIED
 - SEPARATION BETWEEN TURF AND DRYLAND GRASS
 - DRILL SEEDED TURF AS SPECIFIED
 - INCREASE MULCH AT TACKLER WHEN SEEDING AS SPECIFIED
 - 2 REFERENCE TO SHEET SPECIFIC NOTES

SHEET SPECIFIC NOTES

1. MAINTAIN EXISTING ROCK LINED SWALE REMOVE WEEDS AND STRAIGHTEN EDGE OF SWALE PRIOR TO SEEDING REFER TO EXISTING SITE PLAN.
2. INSTALL ROCK MULCH INFL. BETWEEN EXISTING MULCH AND EDGE OF LAWN MULCH TO MATCH EXISTING MULCH ON BANK. DEPTH AS REQUIRED TO COVER SOIL. APPLY PRE-EMERGENT HERBICIDE PRIOR TO INSTALLING MULCH.
3. REFER TO VLB'S FOR TREATMENT AT PARKING LOT ISLANDS.





Centennial Park PLANTING PLAN

CARL THUESEN
A S L A

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
313 GRAND AVE. SUITE 110
P.O. BOX 2043
BILLINGS, MT 59103
(406) 594-1100 FAX 595-9900

Drawn by: CSC
Date: 11/28/89
Checked by: NGS
Date: 11/28/89
Rev: 2/1/90
Rev: -
File: 02 SHEET L-104 PLANTING

SHEET
L-104



PLANT SCHEDULE:

KEY	QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT
TREES					
CB		COLORADO SPRUCE	PICEA REXENS	5-6'	DND
NB		NORWAY SPRUCE	PICEA ABIES	5-6'	DND
AP		AUSTRIAN PINE	PAULS NORA	5-6'	DND
AM		AMER MAPLE	ACER GRANATA 'FLAME' (MULTI-STEM)	1-1/2'	DND
CR		CANADA RED CHOKECHERRY	PRUNUS VIRGINIANA 'CANADA RED'	1-1/2'	DND
TI		TATARIAN MAPLE	ACER TATARICUM	1-1/2'	DND
CH		CHOKWAND COTONWOOD	POPULUS DELTOIDES 'BOKWAND'	2-1/2'	DND
NB		HACKBERRY	CELTIS OCCIDENTALIS	2-1/2'	DND
PA		PATIENCE BHM	FRAXINUS PENNSYLVANICA 'PATIENCE'	1-1/2'	DND
PC		PRARIE CRAB	PAULS 'PRARIE CRAB'	1-1/2'	DND
SB		SPRING SNOW GRASS	PAULS 'SPRING SNOW'	1-1/2'	DND
SO		SHARP WHITE OAK	QUERCUS BICOLOR	2-1/2'	DND
GL		GREENSPRUE LINDEN	TLIA CORDATE 'GREENSPRUE'	2-1/2'	DND
RL		REDSPRUE LINDEN	TLIA AMERICANA 'REDSPRUE'	2-1/2'	DND
BL		BORTON GLOSSY ELM	ULMUS GLABRA X TULIPUM 'BORTON GLOSSY'	2-1/2'	DND
HC		AUTUMN SPLENDOR HORSECHESNUT	AESCULUS X ARNOLDIANA 'AUTUMN SPLENDOR'	2-1/2'	DND
TD		RAYDAY TREE	PRUNUS PADUS COMPLANATA	1-1/2'	DND

LEGEND:

----- SEEDING - AS SPECIFIED

----- SEPARATION BETWEEN TURF AND DRYLAND GRASS

DRILL SEEDING TURF AS SPECIFIED

INCREASE MULCH & TOPSOIL WHEN SEEDING AS SPECIFIED

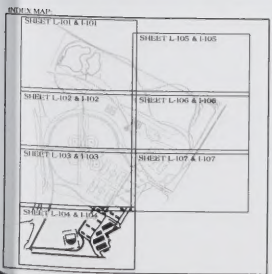
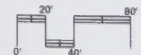
② REFERENCE TO SHEET SPECIFIC NOTES.

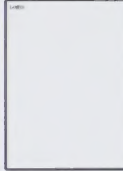
SHEET SPECIFIC NOTES:

1. MAINTAIN EXISTING ROCK LINED SHALE. REMOVE WEEDS AND STRAIGHTEN EDGE OF SHALE PRIOR TO SEEDING. REFER TO EXISTING SITE PLAN.

2. INSTALL ROCK MULCH IN ALL DISTURBED EXISTING MULCH AND EDGE OF LAVAL MULCH TO MATCH EXISTING MULCH ON BANK. DEPTH AS REQUIRED TO COVER SOIL. APPLY PRE-EMERGENT HERBICIDE PRIOR TO INSTALLING MULCH.

3. REFER TO PLANS FOR TREATMENT AT PLANTING LOT ISLANDS.



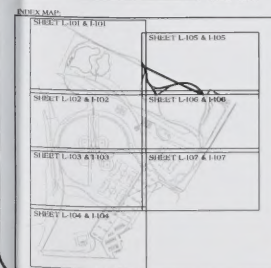
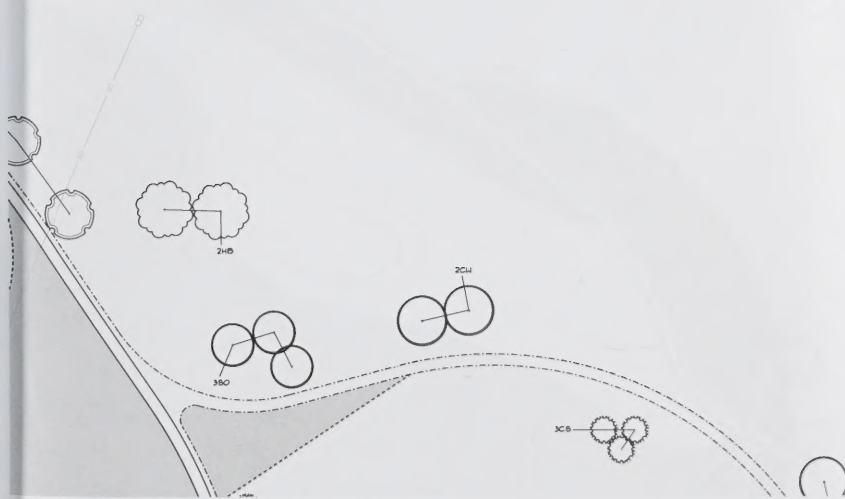


Centennial Park PLANTING PLAN

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
100 GRAND AVENUE SUITE 100
P.O. BOX 10045
BILLECA, MT 59104
(406) 291-0441 FAX (406) 291-9855

Drawn by: GSC
Date: 11/28/82
Checked by: NGS
Date: 11/28/82
Rev: 2/1/83
Rev: _____
File: 100 SHEET L-105 PLANT PLAN

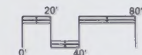
SHEET
L-105



KEY	QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT
TREES					
CR		COLORADO SPRUCE	PICEA PUNGENS	3-6'	DMS
NB		NORWAY SPRUCE	PICEA ABIES	3-6'	DMS
AP		AUSTRIAN PINE	PAULS NIGRA	3-6'	DMS
AP		ATLAS PINE	ACER GINNALA 'FLAME' (MULTI-STEM)	1-1/2'	DMS
CR		CANADA RED CHOKECHERRY	PRUNUS VIRGINIANA CANADA RED	1-1/2'	DMS
TY		TATARIAN MAPLE	ACER TATARICUM	1-1/2'	DMS
CU		CANADA COTTONWOOD	POPULUS DELTOIDES 'BOUKLAND'	2-1/2'	DMS
HB		HACKBERRY	CELTIS OCCIDENTALIS	2-1/2'	DMS
PA		PATMORE ASH	FRAXINUS PENNSYLVANICA 'PATMORE'	2-1/2'	DMS
BC		PRANEFIRE GRAB	PALUS PRANEFIRE	1-1/2'	DMS
BS		SPRING SNOW GRAB	PALUS SPRING SNOW	1-1/2'	DMS
SO		SWAMP WHITE OAK	QUERCUS BICOLOR	2-1/2'	DMS
GL		GREENSPICE LINDEN	TILIA CORDATE 'GREENSPICE'	2-1/2'	DMS
RL		REDHOND LINDEN	TILIA AMERICANA 'REDHOND'	2-1/2'	DMS
EL		NORTON GLOSSY ELM	ULMUS GLABRA X TULIPIN 'NORTON GLOSSY'	2-1/2'	DMS
HC		AUTUMN SPLENDOR HORSECHESTNUT	AESCULUS X ARNOLDIANA 'AUTUMN SPLENDOR'	2-1/2'	DMS
MD		MAYDAY TREE	PRUNUS PADUS COMPOSITA	1-1/2'	DMS

- LEGEND**
- EDGING - AS SPECIFIED
 - SEPARATION BETWEEN TURF AND DRYLAND GRASS
 - DRILL BEDED TURF AS SPECIFIED
 - INCREASE MULCH & TACKIFIER WHEN BEEDING AS SPECIFIED
 - (2) REFERENCE TO SHEET SPECIFIC NOTES.

SITE SPECIFIC NOTES





Centennial Park PLANTING PLAN

CARL THUESEN
A S L A

CORLEHOUSE ARCHITECTURE
LANDSCAPE ARCHITECTURE

101 GRAND AVE. SUITE 105
P.O. BOX 22943
BILLING, MT 59101
(406) 253-1543 FAX 253-1555

Drawn by: GSC

Date: 1/28/09

Checked by: NGS

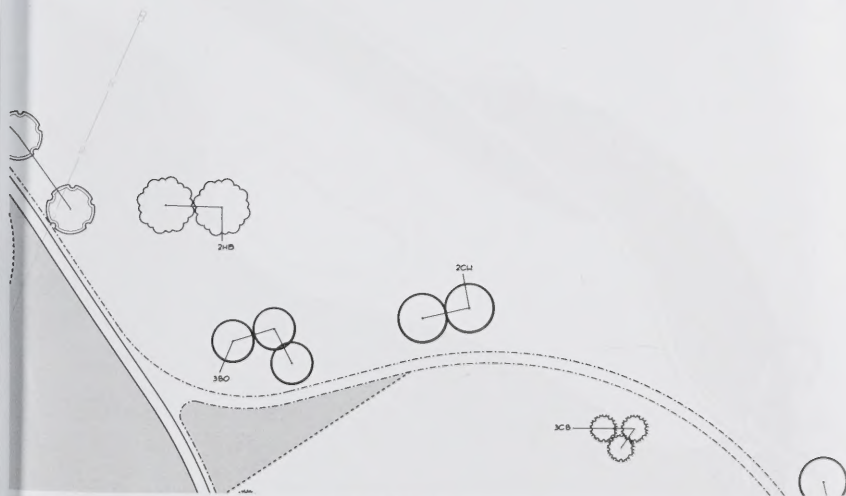
Date: 1/28/09

Rev: 2/1/10

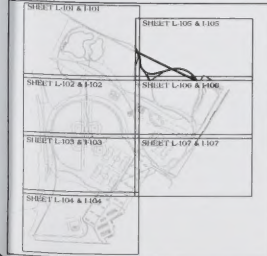
Rev: -

File: 00 SHEET L-105-PLANTING

SHEET
L-105



INDEX MAP:



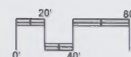
PLANT SCHEDULE:

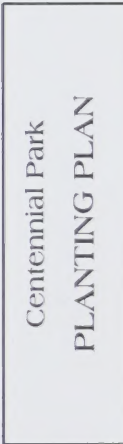
KEY	QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT
TREES					
CS		COLORADO SPRUCE	PICEA PUGENSIS	3-6	DND
NS		NORWAY SPRUCE	PICEA ADRES	3-6	DND
AP		AUSTRIAN PINE	PNUS NORA	3-6	DND
MT		MAYER MAPLE	ACER GRANATA FLAKE MULTI-STEM	14-17	DND
CR		CANADA RED CHOKECHERRY	PRUNUS VIRGINIANA CANADA RED	14-17	DND
TM		TATARIAN MAPLE	ACER TATARICUM	14-17	DND
CU		BOUXLEAF COTTONWOOD	POPULUS DELTOIDES BOUXLEAF	2-1/2	DND
HB		HACKBERRY	CELTIS OCCIDENTALIS	2-1/2	DND
PA		PATMORE ASH	FRAXINUS PENNSYLVANICA PATMORE	2-1/2	DND
PC		PRINCE OF WALES CEDAR	TALUS PRINCE OF WALES	14-17	DND
BB		BIRCH SPRING BIRCH	BETULA SPRING BIRCH	14-17	DND
SO		SWAMP WHITE OAK	QUERCUS BICOLOR	2-1/2	DND
GL		GREENSPRING LINDEN	TILIA CORDATA GREENSPRING	2-1/2	DND
RL		REDFORD LINDEN	TILIA AMERICANA REDFORD	2-1/2	DND
BL		BORTON GLOSSY ELM	ULMUS GLABRA X TROUPEN BORTON GLOSSY	2-1/2	DND
MC		AUTUMN SPLENDOR HORSECHESNUT	AESCULUS X ARNOLDIANA AUTUMN SPLENDOR	2-1/2	DND
PD		PLAYDAY TREE	PRUNUS PADUS COMPACTA	14-17	DND

LEGEND

- EDGING - AS SPECIFIED
- SEPARATION BETWEEN TURF AND DRYLAND GRASS
- DRILL SEEDING TURF AS SPECIFIED
- INCREASE MULCH ATTACKER WHEN SEEDING AS SPECIFIED
- REFERENCE TO SHEET SPECIFIC NOTES

SITE SPECIFIC NOTES





1825 GRAND AVE. SUITE 105
P.O. BOX 22943
BILLINGS, MT 59104
406/252-5545 FAX 245-9855

File: CD SHEET LUG-PLANT.DCN



SHEET SPECIFIC NOTES:



Centennial Park PLANTING PLAN

CARL THUESEN
A S L A

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE

595 GRAND AVE. SUITE 100
P.O. BOX 22843
BELLINGHAM, WA 98221
360.735.9658 FAX 360.735.9655

Drawn by: GSC

Date: 11/28/89

Checked by: NGS

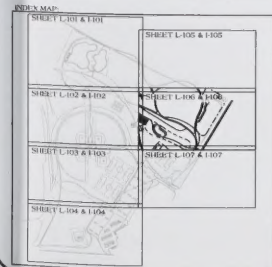
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Rev: 2/1/10

Rev: -

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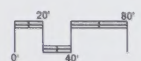
SHEET
L-106



PLANT SCHEDULE					
KEY	QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT
CR		COLORADO SPRUCE	PICEA PUGENS	5-6'	DND
NS		NORWAY SPRUCE	PICEA ADAMS	5-6'	DND
AP		AUSTRIAN PINE	PNUS NIGRA	5-6'	DND
AT		ATLANTIC PINE	ACER GINNALA FLAME MULTI-STEM	10-12'	DND
CR		CANADA RED CHOKECHERRY	PRUNUS VIRGINIANA CANADA RED	10-12'	DND
TR		TATARIAN MAPLE	ACER TATARICUM	10-12'	DND
CU		BOUKLAND COTTONWOOD	POPULUS DELTOIDES BOUKLAND	2-1/2'	DND
HB		HACKBERRY	CELTIS OCCIDENTALIS	2-1/2'	DND
PA		PATMORE A&H	FRAXINUS PENNSYLVANICA PATMORE	2-1/2'	DND
PC		PALMER PINE GRASS	PALLAS PALMER PINE	10-12'	DND
BB		BIRCH BIRCH GRASS	PALLAS BIRCH BIRCH	10-12'	DND
BO		BURR WHITE OAK	QUERCUS BICOLOR	2-1/2'	DND
GL		GREENLEAF LINDEN	TILIA CORDATA GREENLEAF	2-1/2'	DND
RL		REDFORD LINDEN	TILIA AMERICANA REDFORD	2-1/2'	DND
EL		NORTON GLOSSY ELM	ULMUS GLABRA X TRIFLORA NORTON GLOSSY	2-1/2'	DND
HC		AUTUMN SPLENDOR HORSECHESNUT	AESCULUS X ARNOLDIANA AUTUMN SPLENDOR	2-1/2'	DND
PD		PLAYDAY TREE	PRUNUS PADUS COMPACTA	10-12'	DND

- LEGEND
- EDGING - AS SPECIFIED
 - SEPARATION BETWEEN TURF AND DRYLAND GRASS
 - DRILL SEEDING TURF AS SPECIFIED
 - INCREASE MULCH ATTACKER WHEN SEEDING AS SPECIFIED
 - REFERENCE TO SHEET SPECIFIC NOTES

SHEET SPECIFIC NOTES

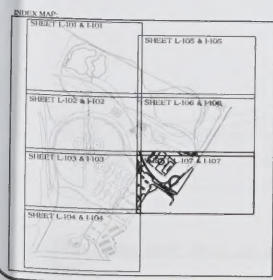




Centennial Park PLANTING PLAN

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
100 GRAND AVENUE SUITE 800
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BILINGS, MT 59109
406.253.0545 FAX 253.9055

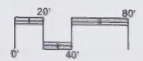
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Checked by: NGS
Date: 11/20/09
Rev: 2/V/0
Rev: -
File: GP SHEET L-107 PLANT PLAN

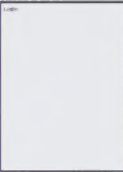


PLANT SCHEDULE				
KEY	QTY	COMMON NAME	BOTANICAL NAME	SIZE
TREES				
CB		COLORADO SPRUCE	PICEA PUNGENS	3-6
NB		NORWAY SPRUCE	PICEA ADRES	5-6
AP		AUSTRIAN PINE	PAULS NIGRA	5-6
AM		AMUR MAPLE	ACER GINALE 'FLAME' (MULTISTEM)	1-2
CR		CANADA RED CHOCHECHERRY	PRUNUS VIRGINIANA 'CANADA RED'	1-2
CU		BUCKLAND COTTONWOOD	ACER TATARICUM	1-2
HS		HACKBERRY	POPULUS DELTOIDEA 'BUCKLAND'	2-3
PA		PATMORE ASH	CETUS OCCIDENTALIS	2-3
PC		PRAIRIE FIRE CRAB	FRAXINUS PENNSYLVANICA 'PATMORE'	2-3
BS		SPRING BROWN CRAB	PAULS SPRING BROWN	1-2
SO		SHARP WHITE OAK	QUERCUS BICOLOR	2-3
GL		GREENSPRING LINDEN	TILIA CORDATA 'GREENSPRING'	2-3
BL		REDFORD LINDEN	TILIA AMERICANA 'REDFORD'	2-3
SL		NORTON GLOSSY ELM	ULMUS GLABRA X 'NORTON GLOSSY'	2-3
HC		AUTUMN SPLENDOR HORSECHESTNUT	AEQUILIS X 'ARNOCLIANA' 'AUTUMN SPLENDOR'	2-3
MD		MAYDAY TREE	PRUNUS PADUS CORPULATA	1-2

- LEGEND
- EDGING - AS SPECIFIED
 - SEPARATION BETWEEN TURF AND DRYLAND GRASS
 - DRILL BEDED TURF AS SPECIFIED
 - INCREASE MULCH 4 INCHES WHEN BEDDING AS SPECIFIED
 - 2 REFERENCE TO SHEET SPECIFIC NOTES

SHEET SPECIFIC NOTES:
(REFER TO 3X-100 FOR TREATMENT AT PARKING LOT ISLANDS)





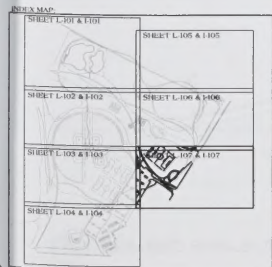
Centennial Park PLANTING PLAN

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE

1323 GRAND AVE. SUITE 105
P.O. BOX 22843
BILLINGS, MT 59104
505.243.5585 / FAX 505.243.5555

Drawn by: CSC
Date: 11/20/09
Checked by: NCS
Date: 11/20/09
Rev: 2/1/10
Rev: _____
File: 02 SHEET L-107-PLANT.DGN

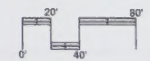
SHEET
L-107

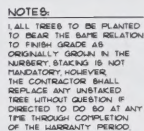


PLANT SCHEDULE				
KEY	QTY	COMMON NAME	BOTANICAL NAME	SIZE ROOT
TREES				
CS		COLORADO SPRUCE	PICEA PUNGENS	3-6' DB
NB		NORWAY SPRUCE	PICEA ABIES	3-6' DB
AP		AUSTRIAN PINE	PIUS NORD	3-6' DB
AT		ATLANTIC MAPLE	ACER GINNALS 'FLAME' (MULTI-STEP)	1-1/2' DB
CR		CANADA RED CHOKECHERRY	PRUNUS VIRGINIANA 'CANADA RED'	1-1/2' DB
TH		TATARIAN MAPLE	ACER TATARICUM	1-1/2' DB
CH		BOUXLAND COTTONWOOD	POPULUS DELTOIDES 'BOUXLAND'	2-1/2' DB
HB		HACKBERRY	CETIS OCCIDENTALIS	2-1/2' DB
PA		PATMORE ASH	FRAXINUS PENNSYLVANICA 'PATMORE'	2-1/2' DB
PC		PRAIRIE FIRE GRAB	HALUS 'PRAIRIE FIRE'	1-1/2' DB
BB		SPRING SHADOW GRAB	HALUS 'SPRING SHADOW'	1-1/2' DB
BO		BLAUN WHITE OAK	QUERCUS BICOLOR	2-1/2' DB
GL		GREENSPRING LINDEN	TILIA CORDATA 'GREENSPRING'	2-1/2' DB
BL		REDFORD LINDEN	TILIA AMERICANA 'REDFORD'	2-1/2' DB
EL		MORTON GLOSSY ELM	ULMUS GLABRA X TRUMPET 'MORTON GLOSSY'	2-1/2' DB
HC		AUTUMN SPLENDOR HORSECHESNUT	AESOLUS X ARNOLDIANA 'AUTUMN SPLENDOR'	2-1/2' DB
HD		DAYBAY TREE	PRUNUS PADUS CORNUTATA	1-1/2' DB

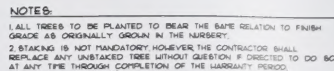
- LEGEND**
- EDGING - AS SPECIFIED
 - SEPARATION BETWEEN TURF AND DRYLAND GRASS
 - DRILL SEEDING TURF AS SPECIFIED
 - INCREASE MULCH STACKFEE WHEN SEEDING AS SPECIFIED
 - ② REFERENCE TO SHEET SPECIFIC NOTES

SHEET SPECIFIC NOTES
(REFER TO 34-00 FOR TREATMENT AT PARKING LOT ISLANDS)

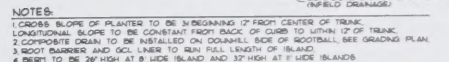




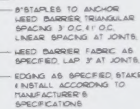
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NOT TO SCALE



NOT TO SCALE



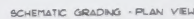
NOT TO SCALE

TREE	1/2" DECID.	2 1/2" DECID.	EVERGREEN
A (WIDTH AT TOP BERM)	48'	72'	72'
B (HEIGHT OF BERM)	36'	42'	42'
C (WIDTH AT BASE OF BERM)	28'	34'	34'

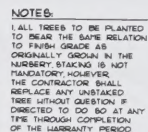
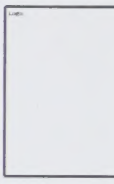
NOTES:

DETAILS APPLIES TO ALL NEW TREES UNLESS NOTED OTHERWISE ON L100 REFER TO L100 FOR MODIFICATIONS TO HEIGHT & WIDTH OF BARKS IN SPECIFIC LOCATIONS IN LOCATIONS WHERE HEIGHT OF THE BARKS IS ADJUSTED L101 AT BASE HEIGHT TO BE 10' MINIMUM. SPECIFIC LOCATIONS TO BE MODIFIED TO 24" L102
RESULTS IN A BASE WIDTH OF 22"

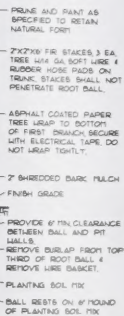
2. BLEND GRASSES BETWEEN TREE TRUNK LOCATIONS TO CREATE A NATURAL LOOK
3. BLEND GRASSES TO BE UNIFORM BLEND BASE TO SURROUNDING AREA
4. MAINTAIN POSITIVE DRAINAGE AT ALL POINTS
5. PROVIDE AT PLANTING DETAILS ON THIS SHEET FOR ADDITIONAL REQUIREMENTS
6. TREES TO BE NURTURED
7. TREES TO BE SEEDING WITH ORLAND GRASS AS SPECIFIED



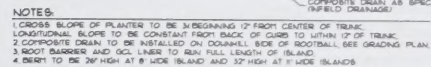
NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE

NOTES:

1. DETAIL APPLIES TO ALL NEW TREES UNLESS NOTED OTHERWISE ON LINES REFER TO L-100 FOR MODIFICATIONS TO HEIGHT & WIDTH OF DBRTH IN SPECIFIC LOCATIONS. IN LOCATIONS WHERE HEIGHT OF THE DBRTH IS ADJUSTED WITH AT BASE OF DBRTH TO BE ADJUSTED TO PLANTING DETAILS ON THIS SHEET. TREE DBRTH MOVED TO 2' TALL. RESULTS IN A BASE WIDTH OF 22".

2. GRASS GRASS BETWEEN MULTIPLE TREE LOCATIONS TO CREATE A NATURAL LOOK.

3. GRASS AT GRASS UNDER PLANT BASE AND BASE INTO BARRIAGE AREA.

4. MAINTAIN POSITIVE DRAINAGE AT ALL POINTS.

5. DETAIL TO PLANTING DETAILS ON THIS SHEET FOR ADDITIONAL REQUIREMENTS.

6. DBRTH IN NON-IRRIGATED AREAS TO BE WEEDED WITH DRYLAND GRASS AS SPECIFIED.



NOT TO SCALE

Centennial Park

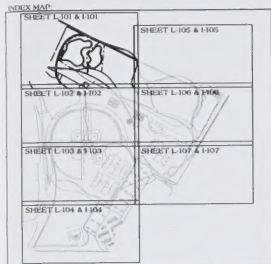
P.O. BOX 22943
BILLINGS, MT 59104
406/252-5545 FAX 245-0055

Rev: 2/1/10

SHEET

L-108

F-100 2



LEGEND	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
□	--- BUBBLER		HUNTER	PRO-84-CV-10-10 1/2 GPM @ 30 PSI
●	--- SPRAY SPRINKLER	8" RADUS	HUNTER	PRO-84-CV-8 SERIES @ 30 PSI
●	--- SPRAY SPRINKLER	17" RADUS	HUNTER	PRO-84-CV-10 SERIES @ 30 PSI
●	--- SPRAY SPRINKLER	19" RADUS	HUNTER	PRO-84-CV-15 SERIES @ 30 PSI
●	--- ROTOR SPRINKLER	19" RADUS	HUNTER	120-ADV/36V-50 SERIES 0-30M-1.8F-3.0 @ 50 PSI
●	--- ROTOR SPRINKLER	25" RADUS	HUNTER	120-ADV/36V-50 SERIES 0-30M-1.8F-3.0 @ 50 PSI
●	--- ROTOR SPRINKLER	43" RADUS	HUNTER	125-24-4.5 GPM @ 10 PSI
●	--- ROTOR SPRINKLER	45" RADUS	HUNTER	125-24-1.1/5 GPM @ 10 PSI
●	--- ROTOR SPRINKLER	53" RADUS	HUNTER	125-24-1.2 GPM @ 10 PSI
●	--- ROTOR SPRINKLER	53" RADUS	HUNTER	125-24-1.5-10-10 (2) GPM @ 10 PSI
●	--- ROTOR SPRINKLER	62" RADUS	HUNTER	125-24-1.5-10-10 (2) GPM @ 10 PSI
●	--- ROTOR SPRINKLER	62" RADUS	HUNTER	125-24-1.5-10-10 (2) GPM @ 10 PSI
○	--- AIR RELIEF VALVE		AS SPECIFIED	
○	--- ISOLATION VALVE		AS SPECIFIED	
▽	--- MAINLINE DRAIN VALVE		AS SPECIFIED	
▽	--- QUICK COUPLING VALVE	F	HUNTER	HQ-44-LSC
⊕	--- ELECTRIC CONTROL VALVE	AS NOTED	HUNTER	ICV-AS SERIES
⊕	--- DRIP ZONE CONTROL VALVE	F	HUNTER	ICV-40-AS
⊕	--- MASTER VALVE/FLOW SENSOR	7/8"	HUNTER	ICV-200-AS-CC @ 85 PSIW HFB-FCI-300
⊕	--- ET SENSOR		HUNTER	ET-SENSOR

LEGEND (CONT.)	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
A & B & C	--- SATELLITE CONTROLLER	30" STATION	HUNTER	ACC-3000-PCD SEE 2/10/10 FOR ADDITIONAL REQUIREMENTS
A & B & C	--- SATELLITE CONTROLLER	30" STATION	HUNTER	ACC-3000-PCD SEE 2/10/10 FOR ADDITIONAL REQUIREMENTS
▽	--- CHECK VALVE	1/2"	HUNTER	HC-50P-50P SEE DRIPPER LINE DETAIL
---	--- IRRIGATION MAIN-PVC	AS SHOWN		CLASS 200
---	--- IRRIGATION SUB-MAIN-PVC	7"		CLASS 200
---	--- LATERAL LINE - PVC	SEE NOTES		CLASS 200
---	--- SLEEVE - PVC	SEE DETAIL		SCHEDULE 40
⊕	--- BACKFLOW DEVICE			
⊕	--- REFERENCE TO SHEET SPECIFIC NOTES			

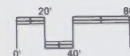
SHEET SPECIFIC NOTES:



Centennial Park IRRIGATION PLAN

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
3151 GRAND AVE. SUITE 100
PO BOX 22415
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406/252-5545 FAX 252-9655

Drawn by: CSG
Date: 11/20/09
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Date: 11/20/09
Rev: 2/1/10
Rev: _____
File: 02 SHEET - 01-05-00



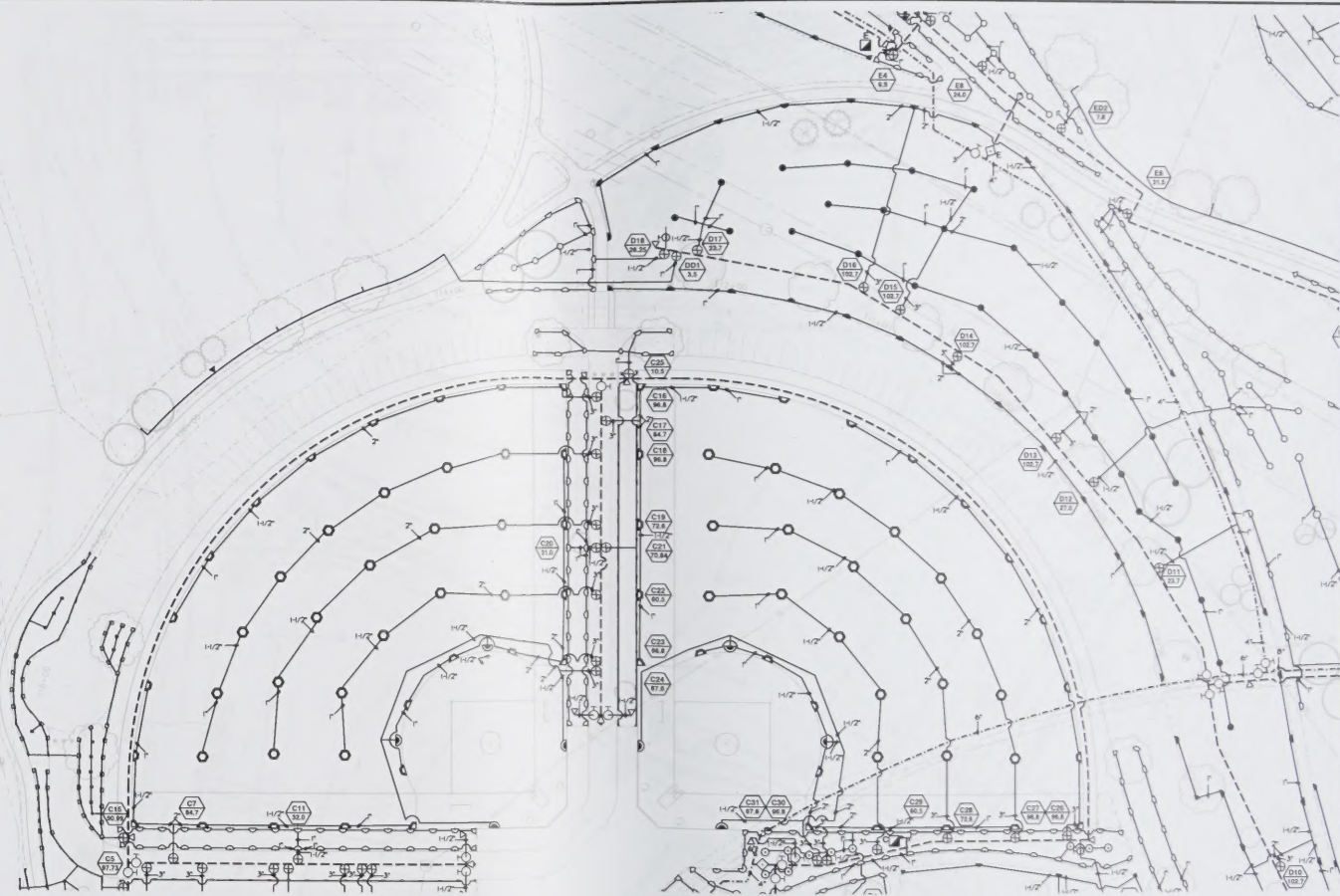
SHEET
I-101



Centennial Park IRRIGATION PLAN

CARL THUESEN
A.S.L.A.
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1025 GRAND AVE. SUITE 105
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BELLINGHAM, WA 98244
438/333-5543 FAX 242-9555

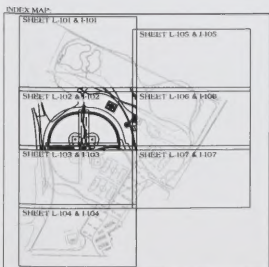
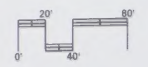
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Date: 11/28/09
Checked by: NGS
Date: 11/28/09
Rev: 2/1/10
File: CD SHEET - 102-IRR.DGN



SYMBOL	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
□	BURGLER	8" RADIUS	HUNTER	PROB-84-CV-RCH-18 1/2 GPM @ 30 PSI
●	SPRAY SPRINKLER	8" RADIUS	HUNTER	PROB-84-CV-B SERIES @ 30 PSI
●	SPRAY SPRINKLER	17" RADIUS	HUNTER	PROB-84-CV-S SERIES @ 30 PSI
●	SPRAY SPRINKLER	19" RADIUS	HUNTER	PROB-84-CV-S SERIES @ 30 PSI
●	ROTOR SPRINKLER	19" RADIUS	HUNTER	120-ADV/84V-BQ SERIES 0-36H/15-3.0 @ 50 PSI
●	ROTOR SPRINKLER	25" RADIUS	HUNTER	120-ADV/84V-BQ SERIES 0-36H/15-3.0 @ 50 PSI
●	ROTOR SPRINKLER	43" RADIUS	HUNTER	125-84-4.5 GPM @ 10 PSI
●	ROTOR SPRINKLER	43" RADIUS	HUNTER	125-84-11.5 GPM @ 10 PSI
●	ROTOR SPRINKLER	53" RADIUS	HUNTER	125-84-10 (2) GPM @ 10 PSI
●	ROTOR SPRINKLER	53" RADIUS	HUNTER	125-84-85-H-10 (2) GPM @ 10 PSI
●	ROTOR SPRINKLER	67" RADIUS	HUNTER	125-84-18.5 GPM @ 10 PSI
●	ROTOR SPRINKLER	67" RADIUS	HUNTER	125-84-85-H-18.5 GPM @ 10 PSI
○	ISOLATION VALVE	LNE SIZE	AS SPEC'D	
○	THANKS DRAIN VALVE	AS SPEC'D	AS SPEC'D	
○	QUICK COUPLING VALVE	AS NOTED	HUNTER	HO-44-1-BC
○	ELECTRIC CONTROL VALVE	AS NOTED	HUNTER	CV-10-40
○	DEEP ZONE CONTROL VALVE	AS NOTED	HUNTER	CV-200-AS-CC @ 85 PSI/11/15-8-1-200
○	MASTER VALVE/FLOW SENSOR	2" / 3"	HUNTER	ET SENSOR
○	ET SENSOR			

SYMBOL	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
A & B & C	SATELLITE CONTROLLER	30" STATION	HUNTER	ACC-3000-PRC, SEE 2/1/10 FOR ADDITIONAL REQUIREMENTS
B & C	SATELLITE CONTROLLER	16" STATION	HUNTER	ACC-3000-PRC, SEE 2/1/10 FOR ADDITIONAL REQUIREMENTS
○	CHECK VALVE	1/2"	AS SHOWN	HC-500-500P, SEE DRINKER LINE DETAIL
○	IRIGATION MAN-PVC	8"	SEE NOTE	CLASS 200
○	IRIGATION SUB-MAN-PVC	8"	SEE NOTE	CLASS 200
○	LATERAL LINE-PVC	8"	SEE NOTE	CLASS 200
○	BLEEVES - PVC	8"	SEE NOTE	SCHEDULE 40
○	BACKFLOW DEVICE			
○	REFERENCE TO SHEET SPECIFIC NOTES			
○	ZONE			

SHEET SPECIFIC NOTES:





Centennial Park IRRIGATION PLAN

CARL THUSEN
A S L A

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE

100 GRAND AVE. SUITE 100
PO BOX 2343
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406/232-5445 FAX 232-9603

Drawn by: **CSC**

Date: **11/20/09**

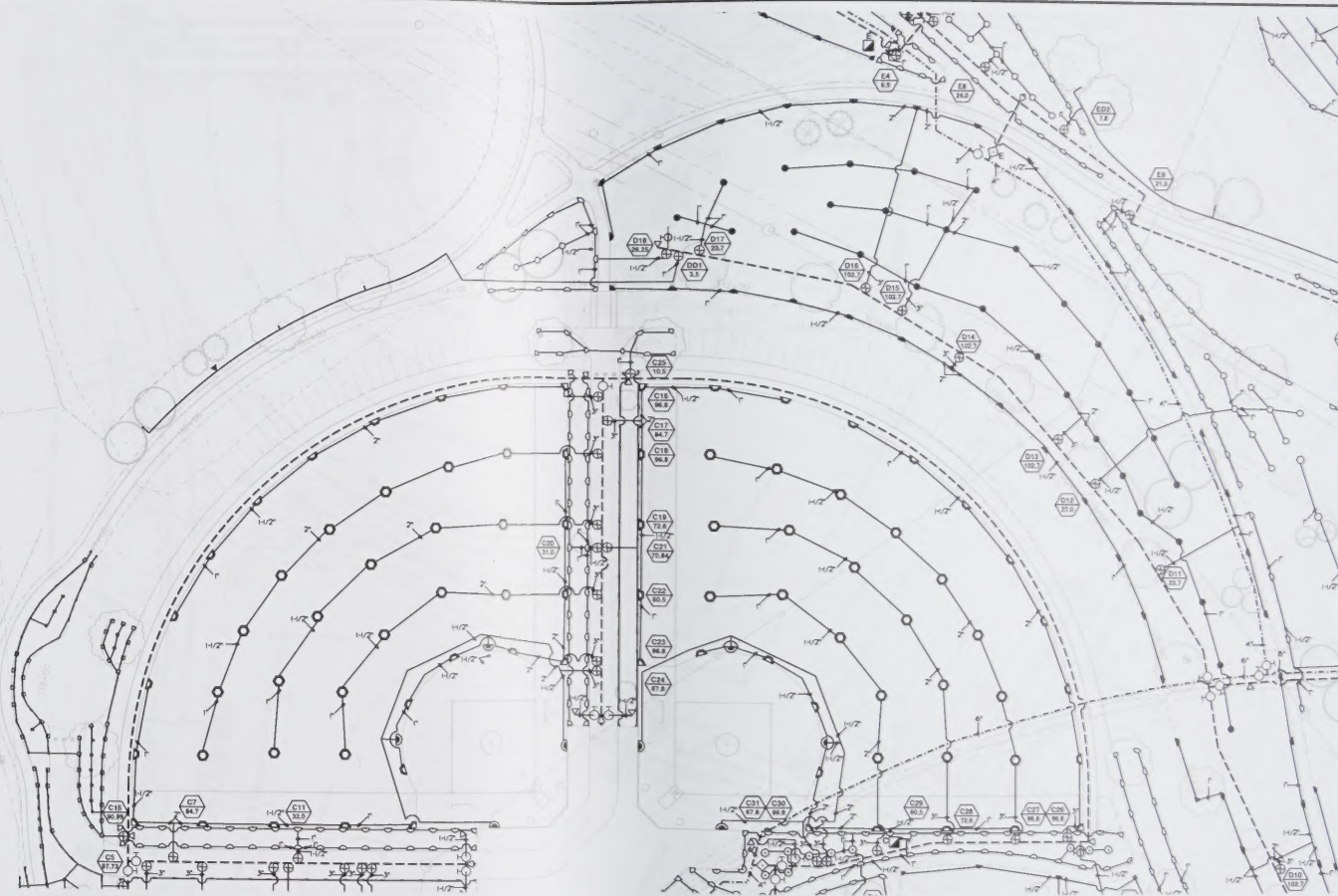
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Date: **11/20/09**

Rev: **2/1/10**

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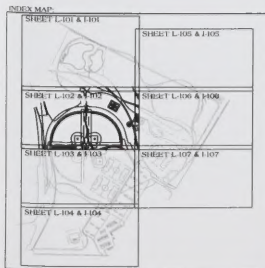
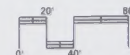
SHEET
1-102



SYMBOL	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
□	DUBBLER			
●	SPRAY SPRINKLER	8" RADIUS	HUNTER	PROB-04-CV-0.8 SERIES # 30 PSI
●	SPRAY SPRINKLER	12" RADIUS	HUNTER	PROB-04-CV-1.2 SERIES # 30 PSI
●	SPRAY SPRINKLER	15" RADIUS	HUNTER	PROB-04-CV-1.5 SERIES # 30 PSI
●	ROTOR SPRINKLER	25" RADIUS	HUNTER	120-ADV/36V-BR SERIES 0.56 HPI-0.2 @ 50 PSI
●	ROTOR SPRINKLER	37" RADIUS	HUNTER	120-ADV/36V-BR SERIES 0.78 HPI-0.3 @ 50 PSI
●	ROTOR SPRINKLER	43" RADIUS	HUNTER	125-04-4.5 GPM # 10 PSI
●	ROTOR SPRINKLER	43" RADIUS	HUNTER	125-04-7.1 GPM # 10 PSI
●	ROTOR SPRINKLER	53" RADIUS	HUNTER	125-04-B 12 GPM # 10 PSI
●	ROTOR SPRINKLER	53" RADIUS	HUNTER	125-04-B 10.5 GPM # 10 PSI
●	ROTOR SPRINKLER	62" RADIUS	HUNTER	125-04-BB-H-0.8 16.5 GPM # 10 PSI
○	AR RELIEF VALVE	LINE SIZE	AS SPECIFIED	
○	ISOLATION VALVE	LINE SIZE	AS SPECIFIED	
○	MANLINE DRAIN VALVE	1"	HUNTER	HQ-44-LSC
○	QUICK COUPLING VALVE	1"	HUNTER	CV-08-40
○	ELECTRIC CONTROL VALVE	AS NOTED	HUNTER	CV-280-05-CC # 85 PSI 1/4" BCT-30P
○	DEEP ZONE CONTROL VALVE	1"	HUNTER	
○	MASTER VALVE/FLOW SENSOR	2 1/2"	HUNTER	ET SENSOR
○	ET SENSOR			

SYMBOL	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
□	BATTERY CONTROLLER	30" STATION	HUNTER	ACC-3000-PRO. SEE 2/1/10 FOR ADDITIONAL REQUIREMENTS
□	BATTERY CONTROLLER	36" STATION	HUNTER	ACC-3600-PRO. SEE 2/1/10 FOR ADDITIONAL REQUIREMENTS
□	CHECK VALVE	1/2"	HUNTER	HC-100-50P. SEE DRIPPER LINE DETAIL.
---	IRRIGATION MAIN - PVC	AS SHOWN		CLASS 200
---	IRRIGATION SUB-MAIN - PVC	AS SHOWN		CLASS 200
---	LATERAL LINE - PVC	SEE NOTES		CLASS 200
---	SLEEVES - PVC	SEE DETAIL		SCHEDULE 40
○	BACKFLOW DEVICE			
○	REFERENCE TO SHEET SPECIFIC NOTES			

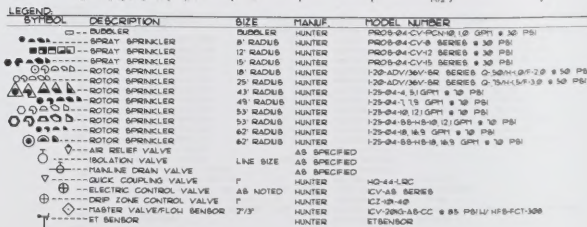
SHEET SPECIFIC NOTES:



CARL THUESEN
A S L A

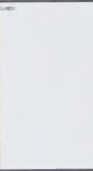
1925 GRAND AVE. SUITE 105
P.O. BOX 22943
BILLINGS, MT 59106
406/252-5545 FAX 245-9855

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Checked by: NCS
Date: 11/20/09
Rev: 2/1/10
Rev: _____
File: CD 34881 - 003-RR-LOG

SHEET
I-103[illegible]

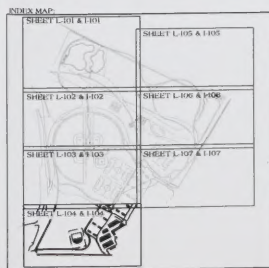
SHEET SPECIFIC NOTES:
1. DAYLIGHT DRAIN AT DRAINAGE GULCH
2. DAYLIGHT DRAIN AT DRAINAGE GULCH IF POSSIBLE





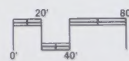
CARL THUSEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE

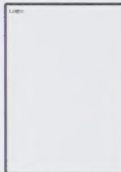
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Date: 11/20/09
Checked by: NCG
Date: 11/20/09
Rev: 2/1/10
Rev: _____
File: CD SHEET - W-1-RELOC



LEGEND (CONT.)		SIZE	MANUF.	MODEL NUMBER
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z	▲	BATTERY CONTROLLER	30 STATION	HUNTER
	▲	BATTERY CONTROLLER	30 STATION	HUNTER
	▲	BATTERY CONTROLLER	30 STATION	HUNTER
	▲	IRIGATION MANIFOLD	4" IN. SHOLD IN	VALV
	▲	IRIGATION MANIFOLD	4" IN. SHOLD IN	VALV
	▲	IRIGATION MANIFOLD	4" IN. SHOLD IN	VALV
▲	LATERAL LINE - PVC	6000 NOTES	CLASS 200	CLASS 200
▲	RESERVE - PVC	6000 NOTES	CLASS 200	CLASS 200
▲	BACKFLOW DEVICE	6000 NOTES	CLASS 200	CLASS 200
▲	REFERENCE TO INVERT SPECIFIC NOTES			

SHEET SPECIFIC NOTES:



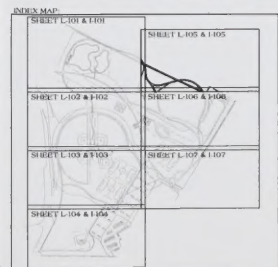


Centennial Park IRRIGATION PLAN

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GOLF COURSE ARCHITECTURE
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Drawn by: CSC
Date: 11/20/09
Checked by: NGS
Date: 11/20/09
Rev: 2/1/10
Rev: -
File: 02 - SHEET - 105 - 03.DWG

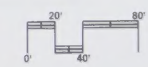
SHEET
I-105

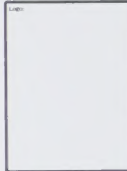


SYMBOL	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
○	SPRINKLER	8" RADIUS	HUNTER	PROB-04-CV-12-1.0 GPM @ 30 PSI
●	SPRAY SPRINKLER	12" RADIUS	HUNTER	PROB-04-CV-12 SERIES @ 30 PSI
●	SPRAY SPRINKLER	15" RADIUS	HUNTER	PROB-04-CV-15 SERIES @ 30 PSI
○	ROTOR SPRINKLER	18" RADIUS	HUNTER	120-ADV/MV-80 SERIES @ 50-110 GPM @ 30 PSI
○	ROTOR SPRINKLER	25" RADIUS	HUNTER	120-ADV/MV-80 SERIES @ 50-110 GPM @ 30 PSI
○	ROTOR SPRINKLER	45" RADIUS	HUNTER	125-04-1.5 GPM @ 10 PSI
○	ROTOR SPRINKLER	45" RADIUS	HUNTER	125-04-1.15 GPM @ 10 PSI
○	ROTOR SPRINKLER	53" RADIUS	HUNTER	125-04-1.0 GPM @ 10 PSI
○	ROTOR SPRINKLER	53" RADIUS	HUNTER	125-04-1.5 GPM @ 10 PSI
○	ROTOR SPRINKLER	62" RADIUS	HUNTER	125-04-1.5 GPM @ 10 PSI
○	ROTOR SPRINKLER	62" RADIUS	HUNTER	125-04-1.5 GPM @ 10 PSI
○	AIR RELIEF VALVE	AS SPECIFIED	AS SPECIFIED	
○	MANLINE DRAIN VALVE	AS NOTED	AS NOTED	
○	QUICK COUPLING VALVE	AS NOTED	AS NOTED	
○	ELECTRIC CONTROL VALVE	AS NOTED	AS NOTED	
○	DRIP ZONE CONTROL VALVE	AS NOTED	AS NOTED	
○	MASTER VALVE/FLOW SENSOR	2" / 3"	HUNTER	ET-SN-1000
○	ET SENSOR			

SYMBOL	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
○	SATELLITE CONTROLLER	30" STATION	HUNTER	ACC-SMP-PED SEE 2/10/1 FOR ADDITIONAL REQUIREMENTS
○	SATELLITE CONTROLLER	1/2" STATION	HUNTER	ACC-SMP-PED SEE 2/10/1 FOR ADDITIONAL REQUIREMENTS
○	CHECK VALVE	AS SHOWN		
○	REGULATION TUBING-PVC	7"		
○	REGULATION SUB-MAN-PVC	SEE DETAIL		
○	LATERAL LINE - PVC	SEE DETAIL		
○	ELBOWS - PVC	SEE DETAIL		
○	BACKFLOW DEVICE			
○	REFERENCE TO SHEET SPECIFIC NOTES			

SHEET SPECIFIC NOTES:





CARL THUESEN
A S L A

1925 GRAND AVE. SUITE 105

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SHEET

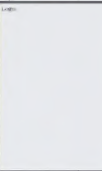


SYMBOL	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
	— SPRAY BRINLER	1/4" RADIUS	HUNTER	PRO-45-CV-45 6000 S 30 PSI
	— SPRAY BRINLER	7/8" RADIUS	HUNTER	PRO-45-CV-45 6000 S 30 PSI
	— SPRAY BRINLER	1" RADIUS	HUNTER	PRO-45-CV-45 6000 S 30 PSI
	— ROTOR BRINLER	18" RADIUS	HUNTER	120-ADV-NV-45 6000 S 30 PSI
	— ROTOR BRINLER	18" RADIUS	HUNTER	120-ADV-NV-45 6000 S 30 PSI
	— ROTOR BRINLER	45" RADIUS	HUNTER	125-AD-45 6000 S 30 PSI
	— ROTOR BRINLER	45" RADIUS	HUNTER	125-AD-45 6000 S 30 PSI
	— ROTOR BRINLER	50" RADIUS	HUNTER	125-AD-45 6000 S 30 PSI
	— ROTOR BRINLER	50" RADIUS	HUNTER	125-AD-45 6000 S 30 PSI
	— ROTOR BRINLER	50" RADIUS	HUNTER	125-AD-45 6000 S 30 PSI
	— ROTOR BRINLER	50" RADIUS	HUNTER	125-AD-45 6000 S 30 PSI
	— AIR RELF VALVE	LINE SIZE	AS SPECIFIED	AS SPECIFIED
	— ISOLATION VALVE	LINE SIZE	AS SPECIFIED	AS SPECIFIED
	— MAINLINE DRAIN VALVE	1"	HUNTER	10-4-45C
	— ELECTRIC CONTROL VALVE	1/2" NOTED	HUNTER	CV-45-45 6000 S 30 PSI
	— DRP ZONE CONTROL VALVE	1"	HUNTER	CV-45-45 6000 S 30 PSI
	— FLASTER VALVE/FLOW SENSOR	7/8"	HUNTER	CV-45-45 6000 S 30 PSI

LEGEND (CONT.)		SIZE	MANUF.	MODEL NUMBER	REQUIREMENTS
A B C	DESCRIPTION	30" B/ATION	HUNTER	ACC-3000-PVC SEE 214H/1 FOR	ADDITIONAL REQUIREMENTS
	SATELLITE CONTROLLER	36" B/ATION	HUNTER	ACC-3600-PVC SEE 214H/1 FOR	ADDITIONAL REQUIREMENTS
	IRIGATION PLAN-PVC	AS SHOWN		CLASS 3000	
	IRIGATION LATERAL-PVC	SEE NOTES		CLASS 3000	
	LATERAL LINE -PVC	SEE NOTES		CLASS 3000	
	BLUESVIES -PVC	SEE DETAIL		SCHEDULE 40	
BACKFLOW DEVICE					
REFERENCE TO SHEET SPECIFIC NOTES					

SHEET SPECIFIC NOTES:

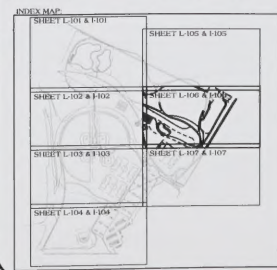




Centennial Park IRRIGATION PLAN & DETAILS

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LANDSCAPE ARCHITECTURE
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Drawn by: CSC
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Checked by: NGS
Date: 11/20/09
Rev: 2/1/10
Rev: -
File: 02 - SHEET - 100-05-020



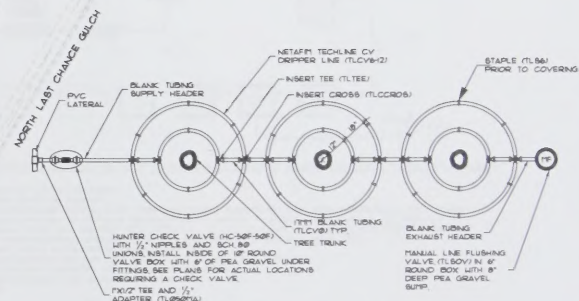
SYMBOL	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
○	BUBBLER	8" RADUS	HUNTER	PROB-04-CV-PCN-12.0 GPM @ 30 PSI
●	SPRAY SPRINKLER	12" RADUS	HUNTER	PROB-04-CV-12 SERIES @ 30 PSI
●	SPRAY SPRINKLER	15" RADUS	HUNTER	PROB-04-CV-15 SERIES @ 30 PSI
●	SPRAY SPRINKLER	18" RADUS	HUNTER	PROB-04-CV-18 SERIES @ 30 PSI
●	SPRAY SPRINKLER	25" RADUS	HUNTER	120-ADV/MV-BR SERIES 0.35-1.5/3-3.0 @ 50 PSI
●	SPRAY SPRINKLER	43" RADUS	HUNTER	125-04-4.5/10 GPM @ 30 PSI
●	SPRAY SPRINKLER	49" RADUS	HUNTER	125-04-1.15 GPM @ 30 PSI
●	SPRAY SPRINKLER	53" RADUS	HUNTER	125-04-1.2 GPM @ 30 PSI
●	SPRAY SPRINKLER	57" RADUS	HUNTER	125-04-1.5/10 GPM @ 30 PSI
●	SPRAY SPRINKLER	62" RADUS	HUNTER	125-04-1.6/9 GPM @ 30 PSI
●	SPRAY SPRINKLER	67" RADUS	HUNTER	125-04-1.8/8.5 GPM @ 30 PSI
○	AIR RELIEF VALVE	AS SPECIFIED	AS SPECIFIED	
○	ISOLATION VALVE	AS SPECIFIED	AS SPECIFIED	
○	MAINLINE DRAIN VALVE	AS NOTED	HUNTER	HQ-44-LBC
○	QUICK COUPLING VALVE	AS NOTED	HUNTER	CV-44-BR-55
○	ELECTRIC CONTROL VALVE	AS NOTED	HUNTER	CV-44-BR-40
○	DRIP ZONE CONTROL VALVE	AS NOTED	HUNTER	CV-300-AS-CC @ 85 PSI/HF-5-CT-300
○	MASTER VALVE/FLOW SENSOR	7/3"	HUNTER	STENSON
○	ET SENSOR			

LEGEND (CONT.)

SYMBOL	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
○	SATELLITE CONTROLLER	30" BATION	HUNTER	ACC-1000-PRO-SEE 2/10/07 FOR ADDITIONAL REQUIREMENTS
○	SATELLITE CONTROLLER	30" BATION	HUNTER	ACC-1000-PRO-SEE 2/10/07 FOR ADDITIONAL REQUIREMENTS
○	CHECK VALVE	1/2"	HUNTER	HC-50F-50F-SEE DRIPPER LINE DETAIL
○	IRRIGATION MAIN - PVC	AS SHOWN		CLASS 200
○	IRRIGATION SUB-MAN - PVC	AS SHOWN		CLASS 200
○	LATERAL LINE - PVC	SEE NOTES		CLASS 200
○	BUBBLER - PVC	SEE DETAIL		SCHEDULE 40
○	BACKFLOW DEVICE			
○	REFERENCE TO SHEET SPECIFIC NOTES			

SHEET SPECIFIC NOTES

1. LOCATE AND PROTECT POND LNER DURING INSTALLATION OF IRRIGATION SYSTEM.
2. DAYLIGHT DRAIN.
3. DAYLIGHT DRAIN AT POND SLOPE DRAIN LINE AT 0.5% SLOPE REFER TO LNER PENETRATION DETAIL FOR ADDITIONAL REQUIREMENTS FOR PENETRATION INTO POND WORK CONSIDERED INCIDENTAL TO IRRIGATION INSTALLATION.
4. INSTALL UP DRAIN VALVE BOX @ ENDS OF MAINLINE.

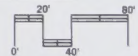


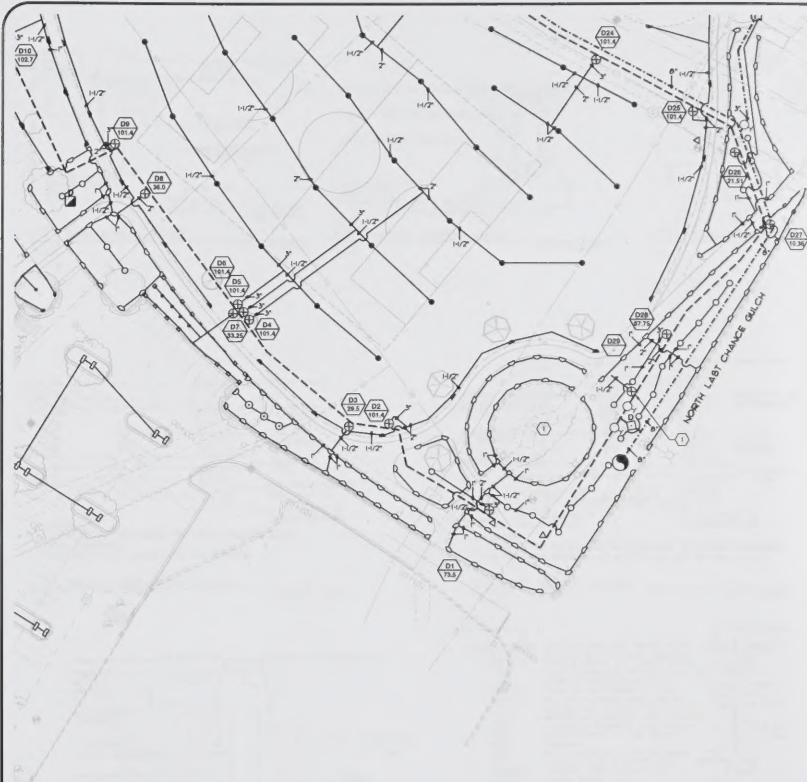
NOTES

1. NUMBER OF TREE RINGS PER PLANS.
2. PROVIDE 1/2" OF COVER OVER ALL DRIPPER LINE AND FITTINGS PRIOR TO SEEDING.
3. ALL INSERT FITTINGS TO BE CLAMPED WITH STAINLESS STEEL CLAMPS.
4. ADJUST CHECK VALVE TO MINIMUM BETTING REQUIRED TO PREVENT LOWHEAD DRAINAGE AT DRIPPER LINE.
5. LOCATE CHECK VALVE WITHIN 8" OF LATERAL AT LOCATIONS INDICATED ON PLANS.
6. THE INITIAL ROAD SHALL BE ON THE BOTTOMAL APPROX. 12" OUT FROM THE TRUNK.

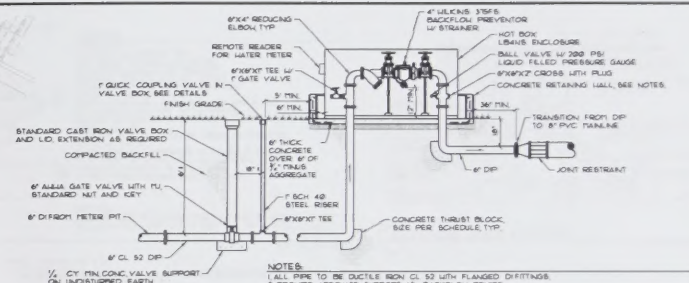
1. DRIPLINE AT TREE SCHEMATIC DETAIL

NOT TO SCALE





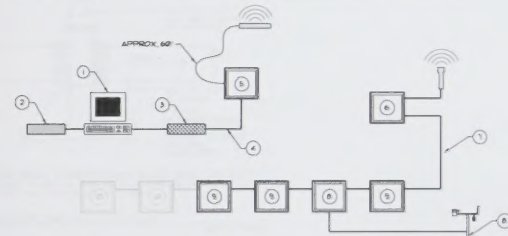
1 BACKFLOW PREVENTOR DETAIL



NOTES:

1. ALL PIPE TO BE DUCTILE IRON CL. 50 WITH FLANGED DRIFTINGS.
2. PROVIDE ADEQUATE SUPPORT AT BACKFLOW PREVENTOR.
3. VERIFY FIT OF COMPONENTS PRIOR TO ORDERING ENCLOSURE.
4. CONCRETE RETAINING WALL 12\"/>

NOT TO SCALE



LEGEND

1. EXISTING COMPUTER AT MAINTENANCE SHOP WITH PFSB 24 LOADED CONTRACTOR TO PROVIDE AND INSTALL PFSB-ET-CC SOFTWARE.
2. EXISTING PFSB-CC.
3. PFSB-CC WITH USB CONNECTION TO COMPUTER.
4. LOCAL CENTRAL CONTROL CABLE IN CONDUIT.
5. ACC-1000 WALL MOUNT CONTROLLER WITH ACC-HWT INTERFACE MODULE ACC-COPHUR COM MODULE RADIO AND PFSB-ANT 3.
6. ACC-1000 AT CENTRAL MAINT. WITH ACC-ETAL INTERFACE AND ACC-COPHUR AND ACC-HWT COM MODULES RADIO.
7. LOCAL CENTRAL CONTROL CABLE IN CONDUIT TO CONTROLLERS.
8. ACC-1000-PED WITH ACC-COPHUR ACC-HWT COM MODULES AND ET SENSOR DET.
9. ACC-1000-PED WITH ACC-COPHUR AND ACC-HWT COM MODULES.
10. FUTURE CONTROLLERS.

NOTES:

1. DETAIL IS SCHEMATIC ADJUST AS REQUIRED BASED ON FIELD CONDITIONS COORDINATE LOCATION OF ALL CONTROL EQUIPMENT WITH OWNER'S REPRESENTATIVE CONTROLLERS TO BE CONNECTED SEQUENTIALLY AS SHOWN.
2. PERFORM RADIO SURVEY PRIOR TO ORDERING ANY CONTROL EQUIPMENT. SURVEY RESULTS TO OWNER'S REPRESENTATIVE.
3. ALL WIRE BANS COM AND ANTENNA CABLES AT MAINT. TO BE INSTALLED IN CONDUIT CONDUIT IS NOT REQUIRED AT SHOP.
4. ALL CONTROLLER FACE PACKS TO BE COMPATIBLE WITH SYSTEM AS DESIGNED.
5. ALL EQUIPMENT TO BE GROUNDED PER THE MANUFACTURER'S RECOMMENDATIONS.
6. SEE IRRIGATION LEGEND FOR ADDITIONAL CONTROLLER INFORMATION.

2 IRRIGATION CENTRAL CONTROL SYSTEM SCHEMATIC

NOT TO SCALE

SYMBOL	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
DOOR	DOOR			
SPRINKLER	SPRINKLER	8" RADIUS	HUNTER	PROB-04-CV-RCU-00 1/2 GPM @ 30 PSI
SPRAY SPRINKLER	SPRAY SPRINKLER	12" RADIUS	HUNTER	PROB-04-CV-8 SERIES @ 30 PSI
SPRAY SPRINKLER	SPRAY SPRINKLER	15" RADIUS	HUNTER	PROB-04-CV-10 SERIES @ 30 PSI
SPRAY SPRINKLER	SPRAY SPRINKLER	18" RADIUS	HUNTER	PROB-04-CV-15 SERIES @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	8" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	12" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	14" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	18" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	22" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	24" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	26" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	28" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	30" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	32" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	34" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	36" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	38" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	40" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	42" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	44" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	46" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	48" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	50" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	52" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	54" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	56" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	58" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	60" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	62" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	64" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	66" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	68" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	70" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	72" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	74" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	76" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	78" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	80" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	82" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	84" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	86" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	88" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	90" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	92" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	94" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	96" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	98" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	100" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	102" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	104" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	106" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	108" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	110" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	112" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	114" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	116" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	118" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	120" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	122" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	124" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	126" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	128" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	130" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	132" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	134" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	136" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	138" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	140" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	142" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	144" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	146" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	148" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	150" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	152" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	154" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	156" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	158" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	160" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	162" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	164" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	166" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	168" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	170" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	172" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	174" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	176" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	178" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	180" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	182" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	184" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	186" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	188" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	190" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	192" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	194" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	196" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	198" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	200" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	202" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	204" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	206" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	208" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	210" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	212" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	214" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	216" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	218" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	220" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	222" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	224" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	226" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	228" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	230" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	232" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	234" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	236" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	238" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	240" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	242" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	244" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	246" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	248" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	250" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	252" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	254" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	256" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	258" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	260" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	262" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	264" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	266" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	268" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	270" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	272" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	274" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	276" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	278" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	280" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	282" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	284" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	286" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	288" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	290" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	292" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	294" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	296" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	298" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	300" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	302" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	304" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	306" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	308" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	310" RADIUS	HUNTER	129-AD7/36V-002 SERIES 0.26-0.34-0.2 @ 30 PSI
ROTOR SPRINKLER	ROTOR SPRINKLER	312" RADIUS	HUNTER</	

SYMBOL	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
A & B	SATELLITE CONTROLLER	30 STATION	HANTER	ACC-3000-RED-BBS 21401 FOR ADDITIONAL
B & C	SATELLITE CONTROLLER	30 STATION	HANTER	ACC-3000-RED-BBS 21401 FOR ADDITIONAL
-----	CAP VALVE	1/2"		HC-AMP-BBS SEE CRIPPER LINE DETAIL
-----	IRRIGATION MAIN PVC	48 INCH		CLASS 200
-----	IRRIGATION SUB-MAIN PVC	3"		CLASS 200
-----	LATERAL LINE - PVC	SEE NOTES		CLASS 200
-----	SPIGOTS - PVC	SEE DETAIL		SCHEDULE 40
	BACKFLOW DEVICE			
	REFERENCE TO SHEET SPECIFIC NOTES			


ZONE 1
 GPM

SHEET SPECIFIC NOTES:

1. REPLACE EXISTING VALVE WITH A NEW P VALVE AND CONNECT TO EXISTING LINE THAT FEEDS INTERIOR OF PERIMETER CIRCULAR DRIVEWAY APPROX. 5' EXISTING NOTICES THAT LINE FEED FROM THE SAME VALVE CUT AND CAP BACK AT MAIN LATERAL USED TO ALLOW FOR PROPER INTERSECTION.

2. CUT EXISTING 48" MAINLINE AND CAP INITIAL THURST BLOCK. RESTORE WITH 800 COORDINATE WITH OWNER FOR SPECIFIC LOCATION.

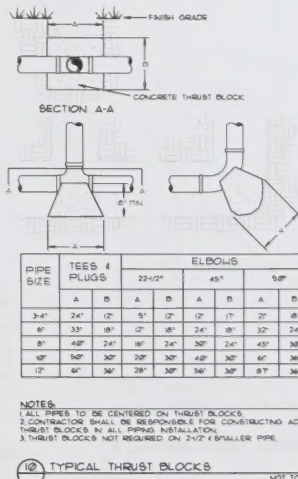
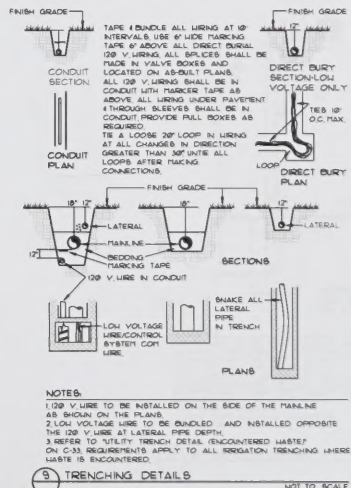
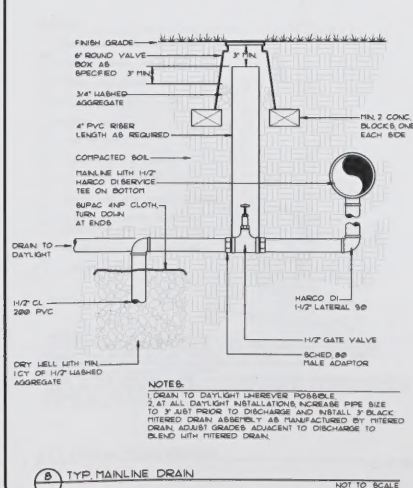
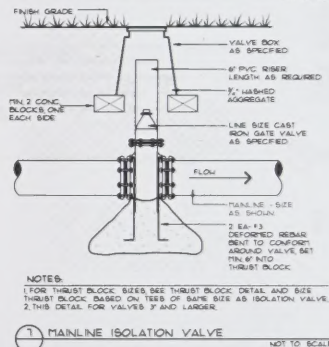
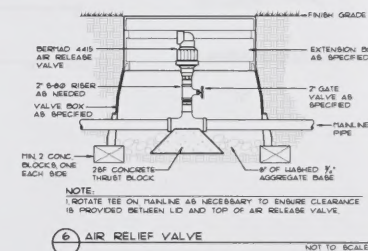
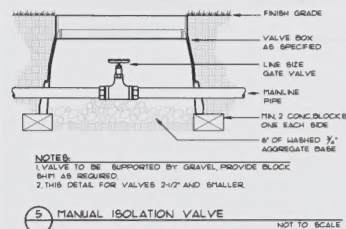
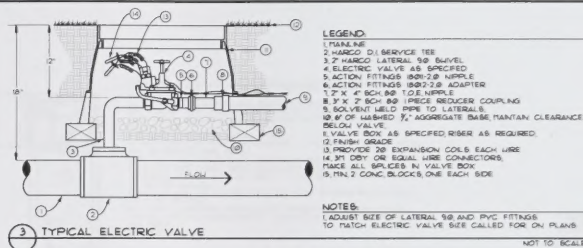
SHEET SPECIFIC NOTES:

1. SURFACE EXISTING VALVE WITH A NEW F VALVE AND CONNECT TO EXISTING LINE THAT FEEDS INTERIOR OF PERFORAL CIRCLE. REMOVE APPROX. 4\"/>

Centennial Park
IRRIGATION PLAN
& DETAILS

CARL THUESSEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
215 GRAND AVE. SUITE 100
BELLINGHAM, WA 98225
PH: 360-848-1885 FAX: 360-848-1885

Drawn by: CSG
Date: 11/28/09
Checked by: NGS
Date: 11/28/09
Rev: 2/1/10
File: 01 - SHEET 1 - IRR. PLAN



Centennial Park IRRIGATION DETAILS

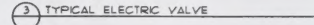
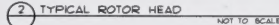
CARL THUESEN

**GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE**

**1925 GRAND AVE. SUITE 105
P.O. BOX 22943
BILLINGS, MT 59104
406/752-5545 FAX 245-9855**

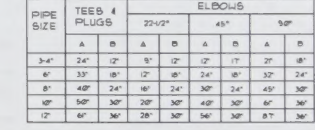
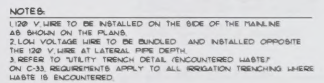
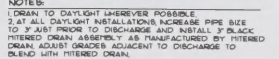
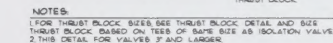
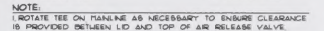
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Date: 11/20/09
Checked by: NGS
Date: 11/20/09
Rev: 2/1/10
Rev:
File:

SHEET
I-108

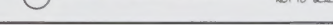
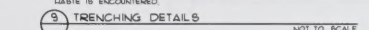


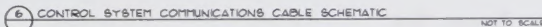
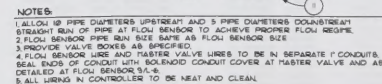
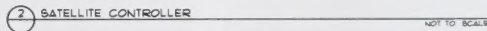
NOTES:
 1. ADJUST SIZE OF LATERAL 90 AND PVC FITTINGS
 TO MATCH ELECTRIC VALVE SIZE CALLED FOR ON PLANS

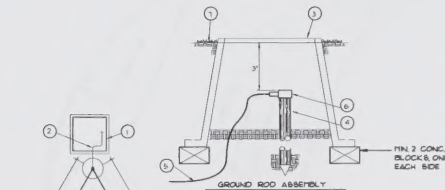
NOT TO SCALE



⑩ TYPICAL THRUST BLOCKS





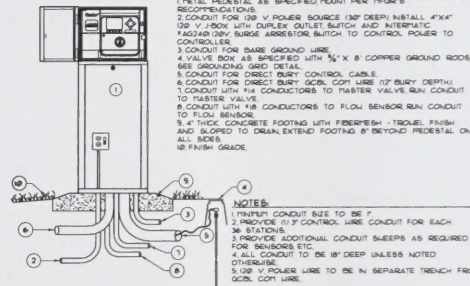


LEGEND

1. FIELD SATELLITE WEATHER STATION OR GCU ASSEMBLY
2. SOLID BASE COPPER WIRE (16 AWG) FROM GROUNDING ROD TO EQUIPMENT TRAIL WIRE AS SHORT AND STRAIGHT AS POSSIBLE
3. COVER GROUNDING ROD WITH 1/2" BOND VALVE BOX IN BOX IN A TRIANGULAR PATTERN SPACED 16" FROM 16" APART FROM EACH OTHER GROUNDING ROD TO HAVE A RESISTANCE OF FIVE (5) OHMS OR LESS VERIFY AFTER CONSTRUCTION
4. BASE COPPER WIRE 16 AWG BETWEEN GROUNDING RODS
5. CADDLED CONNECTION
6. FINISH GRADE

1 GROUNDING GRID

NOT TO SCALE

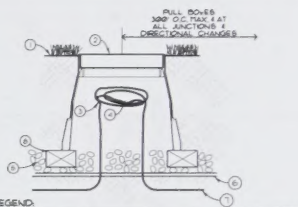


NOTES

1. MINIMUM CONDUIT SIZE TO BE 1/2 INCH
2. PROVIDE 1/2 INCH CONTROL WIRE CONDUIT FOR EACH 30 STATIONS
3. PROVIDE ADDITIONAL CONDUIT SWEEPS AS REQUIRED FOR SENSORS ETC
4. ALL CONDUIT TO BE 1/2 INCH DEEP UNLESS NOTED OTHERWISE
5. 120 V POWER WIRE TO BE IN SEPARATE TRENCH FROM GCU CONTROL WIRE

2 SATELLITE CONTROLLER

NOT TO SCALE



LEGEND

1. FINISH GRADE
2. CARBON 1/2" X 1/2" BOX 1/4" X 1/4" GREY COVER ELECTRICAL MARKINGS
3. 1/2" X 1/2" LOOP OF GCU CABLE IN PULL BOX
4. GCU CABLE SHALL RUN CONTINUOUS BETWEEN EQUIPMENT, SPLICE IN CONTROLLER PEDESTALS ONLY
5. 1/2" X 1/2" DEPTH CRUSHED AGGREGATE
6. 1/2" X 1/2" DEPTH CRUSHED AGGREGATE
7. GCU WIRE PATH TO SATELLITE CONTROLLERS AND TO FLOW SENSORS
8. 1/2" X 1/2" CONCRETE BLOCKS ONE EACH SIDE

NOTES

1. GCU CABLE TO BE INSTALLED IN MAINLINE TRENCH AT LATERAL DEPTH
2. IN AREAS WHERE GCU AND POWER WIRE SHARE A TRENCH A MINIMUM OF 18" OF CLEARANCE SHALL BE MAINTAINED AT ALL TIMES

3 COMMUNICATION CABLE PULL BOX

NOT TO SCALE

LEGEND

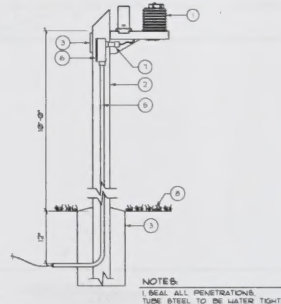
1. WATER SOURCE PIPE, SEE PLANS
2. SERVICE BURMAN, SEE PLANS
3. REDUCE AND ENLARGE AS REQUIRED
4. 1/2 INCH 1200 GATE VALVE
5. MASTER VALVE
6. FLOW SENSOR
7. 1/2 INCH PVC T X T UNION
8. 1/2 INCH PVC THREADED NIPPLE
9. 1/2 INCH PVC 1/2 X 1/2 MALE ADAPTOR
10. 1/2 INCH 1/2 TAPPED PLUG AND CONNECTING LINE
11. THRUST BLOCK, 2X SCHEDULE SIZE
12. 1/2 INCH NIPPLE

NOTES

1. ALLOW 10 PIPE DIAMETERS UPSTREAM AND 5 PIPE DIAMETERS DOWNSTREAM STRAIGHT RUN OF PIPE AT FLOW SENSOR TO ACHIEVE PROPER FLOW REGIME
2. FLOW SENSOR PIPE RUN SIZE SAME AS FLOW SENSOR SIZE
3. PROVIDE VALVE BOXES AND MASTER VALVE WELDS TO BE IN SEPARATE TRENCH, SEAL ENDS OF CONDUIT WITH BONDING CONDUIT COVER AT MASTER VALVE AND AS DETAILED AT FLOW SENSOR S.A.E.
5. ALL LINES IN CONTROLLER TO BE NEAT AND CLEAN

4 TYPICAL FLOW SENSOR

NOT TO SCALE



NOTES

1. SEAL ALL PENETRATIONS TUBE STEEL TO THE WATER TIGHT

LEGEND

1. ET SENSOR AS SPECIFIED POINT TO 50 TUBE
2. 1/2 INCH 1/2 INCH STEEL TUBE, POLYURETHANE COAT COLOR AND PAINT TO MATCH LIGHT POLES TOP TO BE CUT AT 45 DEGREE AS SHOWN, WELD PLATE ON TOP AS COVER
3. 1/2 INCH WATER-TIGHT REMOVABLE PLATE PAINT TO MATCH
4. CONCRETE FOOTING 18" DIA X 12" DEEP MIN. BELOW TO DRAIN
5. COMMUNICATION WIRE FROM SENSOR TO CONTROLLER IN CONDUIT 1/2 INCH
6. 1/2 INCH CONDUIT BODY
7. 1/2 INCH TIGHT UNION IF CONNECTOR
8. FINISH GRADE

5 ET SENSOR DETAIL

NOT TO SCALE

LEGEND

1. SATELLITE CONTROLLER
- COMMUNICATIONS CABLE (GCU)

6 CONTROL SYSTEM COMMUNICATIONS CABLE SCHEMATIC

NOT TO SCALE

Centennial Park IRRIGATION DETAILS

CARL THUESSEN
A S L A

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE

805 GRANDVIEW DRIVE SE
P.O. BOX 2280
BILLINGS, MT 59101
(406) 251-1801 FAX 251-1803

Drawn by: GSG

Date: 11/20/09

Checked by: NGS

Date: 11/20/09

Rev: 2/1/10

Rev: -

File: 12-IR-01-01-01-01-01

SHEET

F-109

Length:

Centennial Park
IRRIGATION SPRAY PLAN

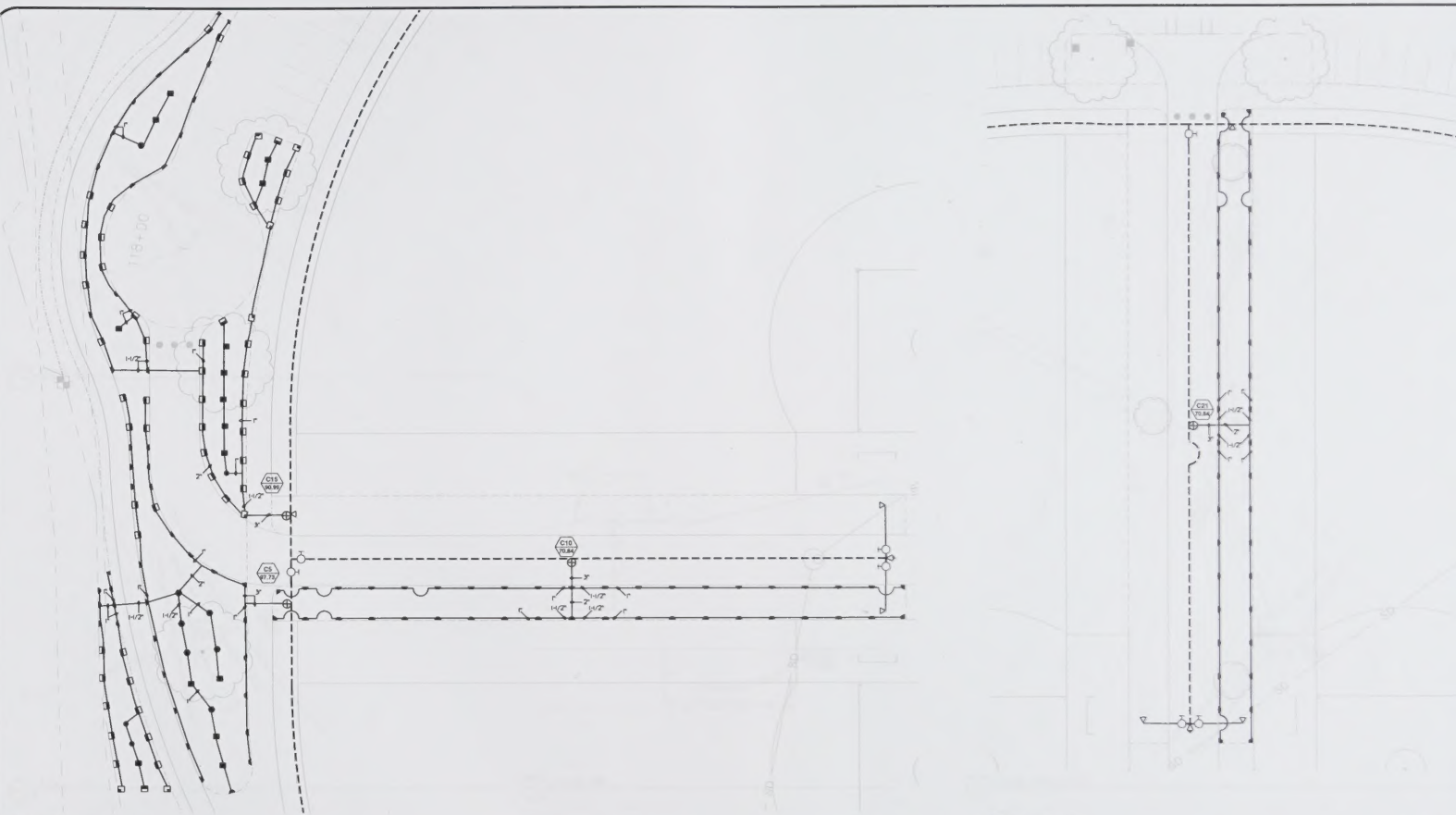
CARL THUESEN

A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE

1925 GRAND AVE. SUITE 105
P.O. BOX 22943
BILLINGS, MT 59104
406/252-5545 FAX 248-9655

Drawn by: GSC
Date: 11/20/09
Checked by: NCS
Date: 11/20/09
Rev: 2/1/10
Rev: _____
File: _____
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SHEET
I-200



1) ZONES C5, C10 & C15

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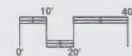
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 BACKFLOW DEVICE
 REFERENCE TO SHEET SPECIFIC NOTES

PA-1
222.8

ZONE
GPM

SHEET SPECIFIC NOTES:





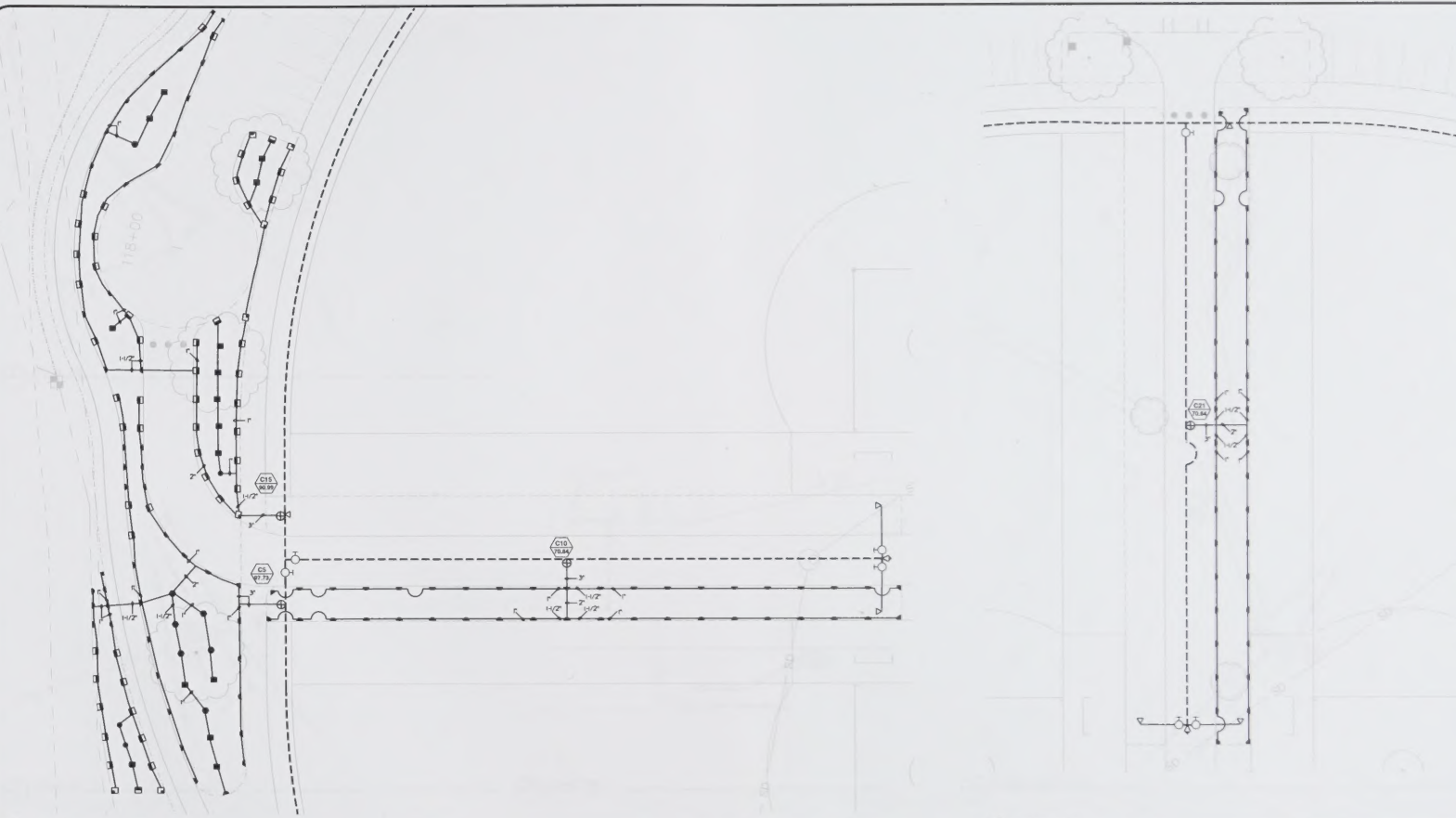
Centennial Park
IRRIGATION SPRAY PLAN

CARL THUESEN
A S L A

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
100 GRAND AVENUE, SUITE 100
P.O. BOX 22040
BILLINGS, MT 59101
406.251.0541 FAX 406.251.9015

Drawn by: CSC
Date: 1/20/09
Checked by: NGS
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SHEET
1-200



1 ZONE 6 C5 C10 C15

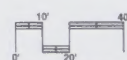
SYMBOL	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
□	SPRINKLER	2" RADIUS	HUNTER	PROB-24-CV-RCH-10 (10 GPM) @ 30 PSI
●	SPRINKLER	8" RADIUS	HUNTER	PROB-24-CV-B SERIES @ 30 PSI
■	SPRINKLER	12" RADIUS	HUNTER	PROB-24-CV-12 SERIES @ 30 PSI
●	SPRINKLER	15" RADIUS	HUNTER	PROB-24-CV-15 SERIES @ 30 PSI
●	SPRINKLER	18" RADIUS	HUNTER	120-ADV/36V-180 SERIES 0-36VH (30" @ 30 PSI)
●	SPRINKLER	24" RADIUS	HUNTER	120-ADV/36V-180 SERIES 0-36VH (30" @ 30 PSI)
●	SPRINKLER	48" RADIUS	HUNTER	125-24-4.1 GPM @ 10 PSI
●	SPRINKLER	48" RADIUS	HUNTER	125-24-1.15 GPM @ 10 PSI
●	SPRINKLER	53" RADIUS	HUNTER	125-24-10.12 GPM @ 10 PSI
●	SPRINKLER	53" RADIUS	HUNTER	125-24-55-10.12 GPM @ 10 PSI
●	SPRINKLER	62" RADIUS	HUNTER	125-24-18.5 GPM @ 10 PSI
●	SPRINKLER	67" RADIUS	HUNTER	125-24-55-18.5 GPM @ 10 PSI
○	ISOLATION VALVE	LINE SIZE	AS SPECIFIED	
○	MANLINE DRAIN VALVE	AS SPECIFIED	AS SPECIFIED	
○	QUICK COUPLING VALVE	1"	HUNTER	HQ-44-LRC
○	ELECTRIC CONTROL VALVE	AS NOTED	HUNTER	CV-46 SERIES
○	QUIP ZONE CONTROL VALVE	1"	HUNTER	CV-20-40
○	MASTER VALVE/PILOT SENSOR	2 1/2"	HUNTER	CV-200-AB-CC @ 85 PSI/H/HS-FC1-300
○	BT SENSOR		HUNTER	BT SENSOR

LEGEND (CONT.)

SYMBOL	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
□	SATELLITE CONTROLLER	30" STATION	HUNTER	ACC-3000-PED SEE 21-NOT FOR ADDITIONAL REQUIREMENTS
□	SATELLITE CONTROLLER	36" STATION	HUNTER	ACC-3600-PED SEE 21-NOT FOR ADDITIONAL REQUIREMENTS
□	CHECK VALVE	1/2"	HUNTER	HC-100-NOT SEE DRAINING LINE DETAIL
---	IRRIGATION MAIN-PVC	AS SHOWN		CLASS 200
---	IRRIGATION SUBMAIN-PVC	3"		CLASS 200
---	LATERAL LINE-PVC	SEE NOTES		CLASS 200
---	BLEEVES-PVC	SEE DETAIL		SCHEDULE 40
○	BACKFLOW DEVICE			
○	REFERENCE TO SHEET SPECIFIC NOTES			

SHEET SPECIFIC NOTES:

1.





Centennial Park IRRIGATION SPRAY PLAN

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1025 GRAND AVE. SUITE 100
PO BOX 1200
BILLYEA, MT 59506
406.252.0545 FAX 406.465

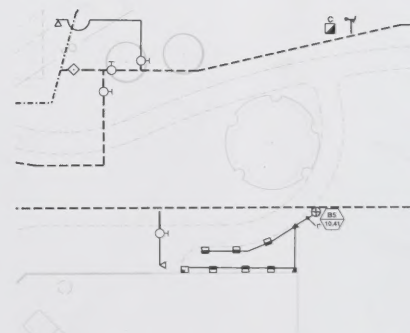
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Date: 1/28/89
Checked by: NGS
Date: 1/28/89
Rev: 2/V
Rev: -
File: GP SHEET - 3RD SPRAY - 4RD



1 ZONE A8



2 ZONE C2



3 ZONE B5

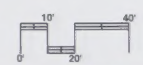


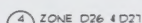
4 ZONE D26 & D27

SYMBOL	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
□	BUBBLER	BUBBLER	HUNTER	PROB-04-CV-PCH-10 (10 GPM @ 30 PSI)
●	SPRAY SPRINKLER	8" RADUS	HUNTER	PROB-04-CV-B SERIES @ 30 PSI
●	SPRAY SPRINKLER	12" RADUS	HUNTER	PROB-04-CV-2 SERIES @ 30 PSI
●	SPRAY SPRINKLER	15" RADUS	HUNTER	PROB-04-CV-3 SERIES @ 30 PSI
●	ROTOR SPRINKLER	25" RADUS	HUNTER	120-ADV/MV-62 SERIES @ 30-40 PSI (2" @ 30 PSI)
●	ROTOR SPRINKLER	43" RADUS	HUNTER	125-04-4.5 GPM @ 10 PSI
●	ROTOR SPRINKLER	49" RADUS	HUNTER	125-04-1.13 GPM @ 10 PSI
●	ROTOR SPRINKLER	53" RADUS	HUNTER	125-04-0.2 GPM @ 10 PSI
●	ROTOR SPRINKLER	53" RADUS	HUNTER	125-04-0.46 GPM @ 10 PSI
●	ROTOR SPRINKLER	62" RADUS	HUNTER	125-04-0.85 GPM @ 10 PSI
●	ROTOR SPRINKLER	62" RADUS	HUNTER	125-04-0.85 GPM @ 10 PSI
○	AIR RELIEF VALVE	LINE SIZE	AS SPECIFIED	
○	MANLINE DRAIN VALVE	LINE SIZE	AS SPECIFIED	
○	QUICK COUPLING VALVE	F	HUNTER	HO-44-LRC
○	ELECTRIC CONTROL VALVE	AS NOTED	HUNTER	CV-10-40
○	ORP ZONE CONTROL VALVE	F	HUNTER	CV-200-0-CC @ 85 PSI/HF-B-FCI-300
○	MASTER VALVE/FLOW SENSOR	2 1/2"	HUNTER	ST-SENSOR
○	ST-SENSOR			

SYMBOL	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
□	SATELLITE CONTROLLER	30" STATION	HUNTER	ACC-NOTED SEE 2/1/87 FOR ADDITIONAL REQUIREMENTS
□	SATELLITE CONTROLLER	30" STATION	HUNTER	ACC-NOTED SEE 2/1/87 FOR ADDITIONAL REQUIREMENTS
□	CHECK VALVE	1/2"	HUNTER	HC-NP-50V SEE DRIPPER LINE DETAIL
□	REGIGATION BUSHMAN PVC	AS SHOWN		CLASS 200
□	LATERAL LINE - PVC	3"		CLASS 200
□	SLICER - PVC	SEE DETAIL		CLASS 200
□	BACKFLOW DEVICE	SEE DETAIL		SCHEDULE 40
□	REFERENCE TO SHEET SPECIFIC NOTES			

SHEET SPECIFIC NOTES:

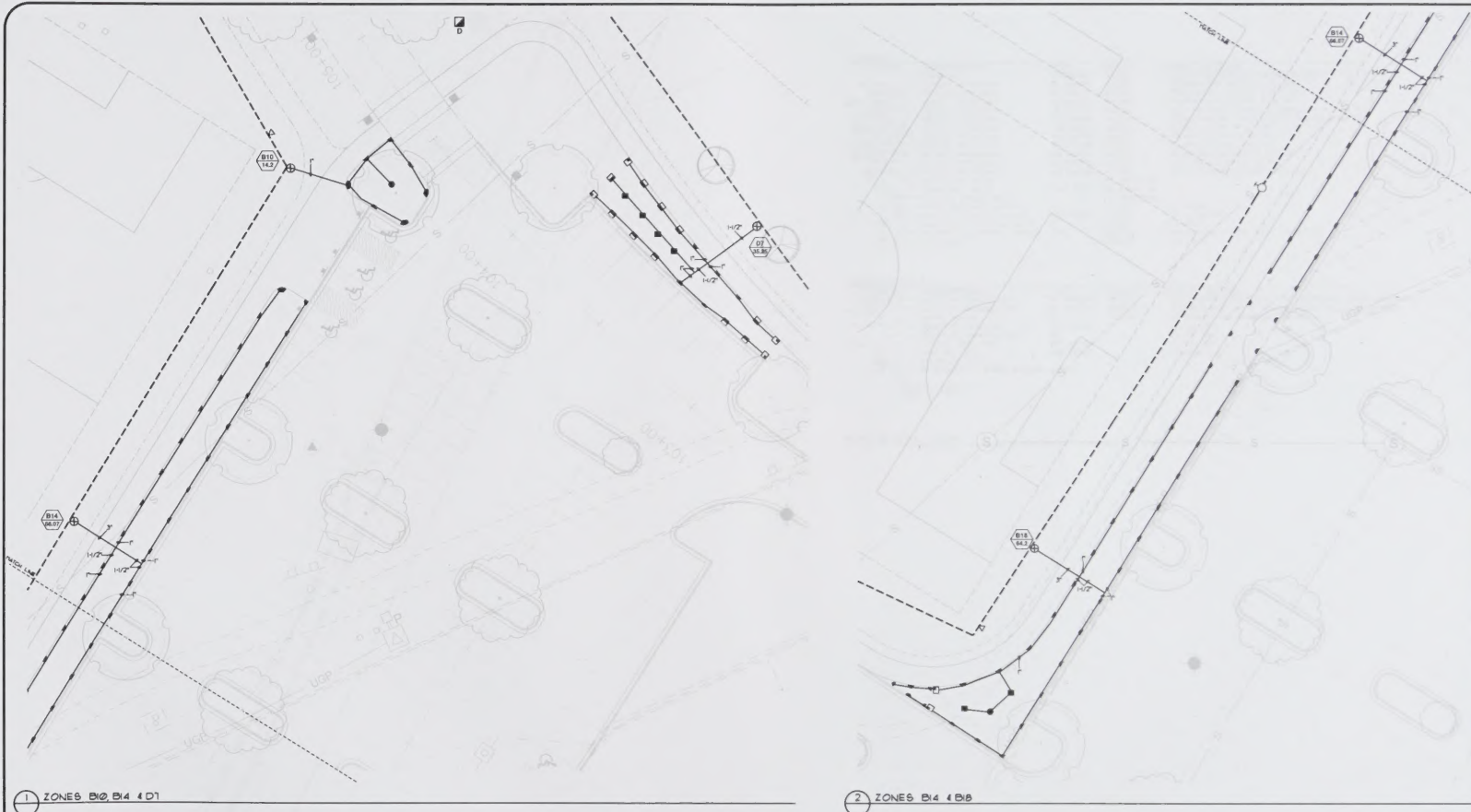
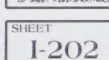




SHEET SPECIFIC NOTES:



SHEET
I-201



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SHEET SPECIFIC NOTES:



Centennial Park IRRIGATION SPRAY PLAN

CARL THUESEN
A S L A

GOLF COURSE ARCHITECTURE

1925 GRAND AVE. SUITE 105
P.O. BOX 22943
BILLINGS, MT 59104
406/252-5541 FAX 245-9855

Drawn by: CSC

Date: 11/20/09

Checked by: NCS

Date: 11/20/09Rev. 2/1/10

Rev: _____

File: _____

SHEET
I-203



Centennial Park IRRIGATION SPRAY PLAN

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
1525 GRAND AVE. SUITE 100
P.O. BOX 22945
BILINGS, MT 59104
(406) 233-5545 FAX 245-0655

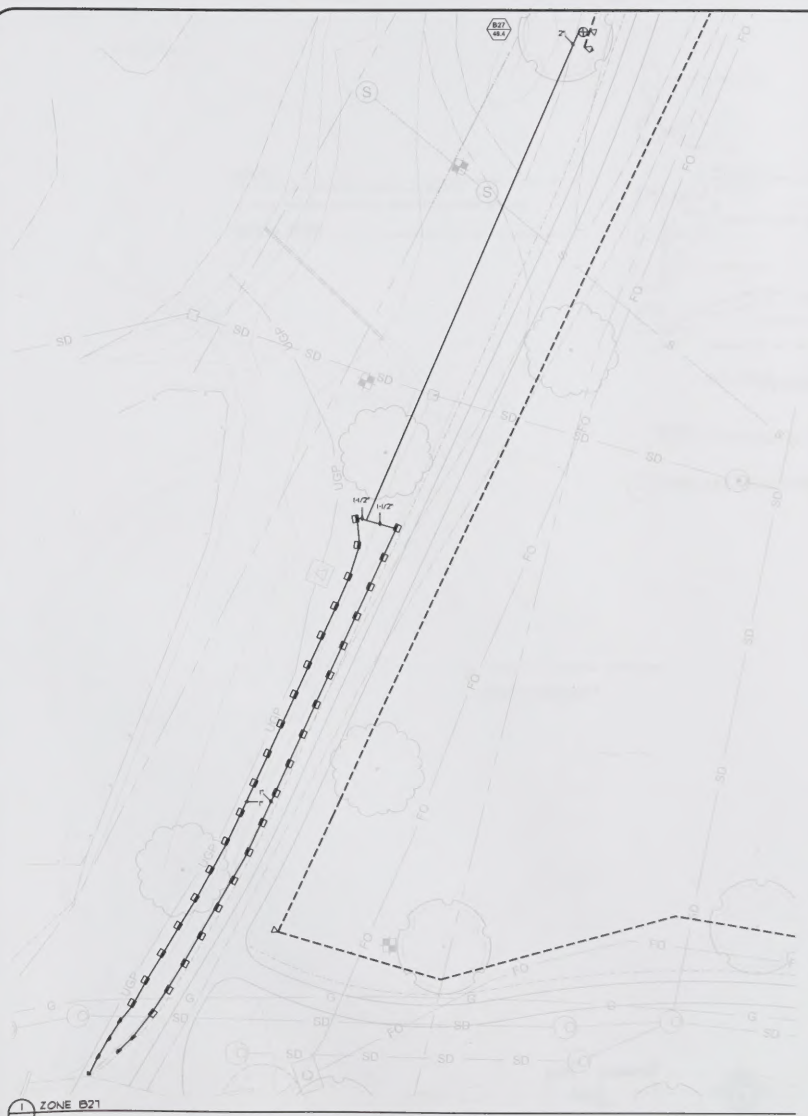
Drawn by: CSG
Date: 11/28/89
Checked by: NGS
Date: 11/28/89
Rev: 2/1/90
Rev: -
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SHEET
I-203

SYMBOL	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
□	DUBBLER	DUBBLER	HUNTER	PRO-84-CV-PCN-12 (2) GPM @ 30 PSI
●	SPRAY SPRINKLER	8" RADUS	HUNTER	PRO-84-CV-8 SERIES @ 30 PSI
●	SPRAY SPRINKLER	12" RADUS	HUNTER	PRO-84-CV-12 SERIES @ 30 PSI
●	SPRAY SPRINKLER	15" RADUS	HUNTER	PRO-84-CV-15 SERIES @ 30 PSI
●	ROTOR SPRINKLER	8" RADUS	HUNTER	128-ADV-36V-8R SERIES 0.58/1.18/2.0 @ 50 PSI
●	ROTOR SPRINKLER	25" RADUS	HUNTER	125-84-4.5 GPM @ 30 PSI
●	ROTOR SPRINKLER	43" RADUS	HUNTER	125-84-7.15 GPM @ 30 PSI
●	ROTOR SPRINKLER	53" RADUS	HUNTER	125-84-12 (2) GPM @ 30 PSI
●	ROTOR SPRINKLER	62" RADUS	HUNTER	125-84-15 (2) GPM @ 30 PSI
●	ROTOR SPRINKLER	62" RADUS	HUNTER	125-84-15 (2) GPM @ 30 PSI
●	ROTOR SPRINKLER	62" RADUS	HUNTER	125-84-15 (2) GPM @ 30 PSI
○	AR RELIEF VALVE	AS SPEC'D		
○	ISOLATION VALVE	AS SPEC'D		
○	MANLINE DRAIN VALVE	AS SPEC'D		
○	QUICK COUPLING VALVE	7"	HUNTER	10-44-LBC
○	ELECTRIC CONTROL VALVE	AS NOTED	HUNTER	CV-AS SERIES
○	DROP ZONE CONTROL VALVE	7"	HUNTER	CV-40-40
○	FLASHER VALVE/FLW SENSOR	7/1"	HUNTER	CV-200-AS-CC @ 85 PSI/1W HF-5-CT-300
○	ET SENSOR		HUNTER	ET-SENSOR

SYMBOL	DESCRIPTION	SIZE	MANUF.	MODEL NUMBER
A & B & C	SATELLITE CONTROLLER	30" STATION	HUNTER	ACC-3000-PED SEE 2/1/87 FOR ADDITIONAL REQUIREMENTS
B & C	BATELLITE CONTROLLER	30" STATION	HUNTER	ACC-3000-PED SEE 2/1/87 FOR ADDITIONAL REQUIREMENTS
—	CHECK VALVE	7/1"	AS SHOWN	HC-500-500 SEE COMPRISE LINE DETAIL
—	IRRIGATION MAIN PVC	AS SHOWN		CLASS 200
—	IRRIGATION SUB-MAN PVC	AS SHOWN		CLASS 200
—	LATERAL LINE - PVC	SEE NOTES		SEE NOTES
—	BLEEVES - PVC	SEE DETAIL		SCHEDULE 40
—	PACKTIGHT DEVICE	SEE DETAIL		
—	REFERENCE TO SHEET SPECIFIC NOTES			

SHEET SPECIFIC NOTES:



1 ZONE B27



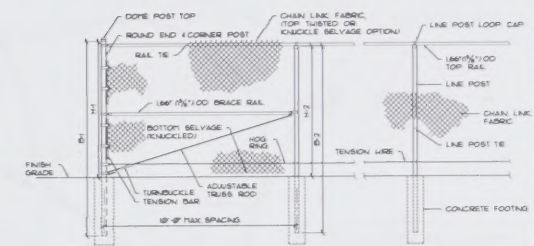
Centennial Park FENCE PLAN & DETAILS

CARL THUESEN
A S L A
GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE
INTERIM/ALTERNATE SITE HR.
P.O. BOX 2260
BILLINGS, MT 59108
406.253.0841 FAX 406.253.8801

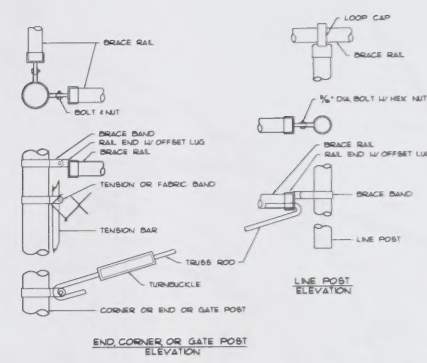
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Date: 11/28/89
Checked by: NGS
Date: 11/28/89
Rev: 2/1/90
File: _____

SHEET
F-100

NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. FOOTING WIDTH TO BE 14"X POST WIDTH, MIN. DEPTH 36"



FENCE HEIGHT	END 4 CORNER POSTS		LINE POSTS	
NORMAL HEIGHT	34" BAR LENGTH	14" HEIGHT ABOVE GRADE	32" BAR LENGTH	12" HEIGHT ABOVE GRADE
4"	7'-0"	4'-0 1/2"	8'-0"	3'-0 1/2"
6"	9'-0"	6'-0 1/2"	8'-0"	3'-0 1/2"



NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

1 CHAIN LINK FENCE POST DETAILS NOT TO SCALE

2 CHAIN LINK FENCE DIMENSIONS NOT TO SCALE

LEGEND:
--- 4' HIGH CHAIN LINK FENCING AS SPECIFIED
--- SPLIT RAIL FENCING AS SPECIFIED (ALTERNATE BID ITEM)
GENERAL NOTES:

FENCING AT ELECTRICAL TRANSFORMER
GATE SEE ELECTRICAL FOR ADDITIONAL INFORMATION



24" OPENING

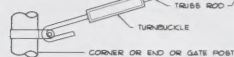
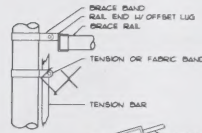
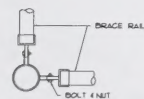
LEGEND:

--- 1/2" x 1/4" x 6' HIGH CHAIN LINK FENCING AS SPECIFIED

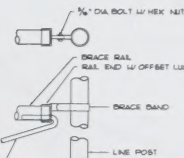
----- SPLIT RAIL FENCING AS SPECIFIED (ALTERNATE BID ITEM)

GENERAL NOTES:

1.



END CORNER OR GATE POST ELEVATION



LINE POST ELEVATION

NOTES:

1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

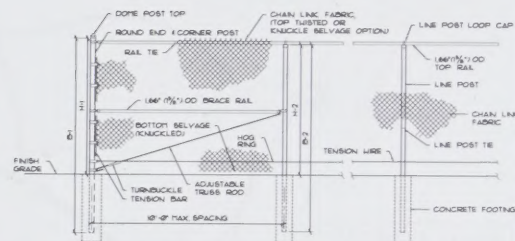
1 CHAIN LINK FENCE POST DETAILS

NOT TO SCALE

NOTES:

1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2. FOOTING WIDTH TO BE 1/4" FOR POST WIDTH 1/4" DEPTH 3/4"

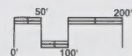


FENCE HEIGHT	END 1 CORNER POSTS	LINE POSTS
NOMINAL HEIGHT	B-1 BAR LENGTH ABOVE GRADE	B-2 BAR LENGTH ABOVE GRADE
4'-0"	1'-0"	6'-8"
6'-0"	1'-0"	8'-8"
		10'-8"

2 CHAIN LINK FENCE DIMENSIONS

NOT TO SCALE

FENCING AT ELECTRICAL TRANSFORMER
GATE SEE ELECTRICAL FOR ADDITIONAL INFORMATION



Centennial Park FENCE PLAN & DETAILS

CARL THUESSEN

A S L A

GOLF COURSE ARCHITECTURE

LANDSCAPE ARCHITECTURE

183 GRAND AVE. SUITE 105

P.O. BOX 2284

BILLINGS, MT 59101

406/252-5501 FAX 406/252-5502

Drawn by: CSG

Date: 11/20/09

Checked by: NGS

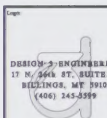
Date: 11/20/09

Rev: 2/1/10

File: _____

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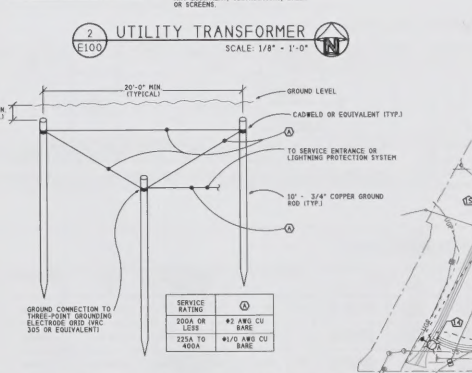
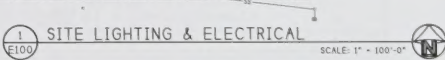
F-100



CARL THUESEN
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GOLF COURSE ARCHITECTURE
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Drawn by: DS
Date: MAR 24 2010
Checked by: GS
Date: MAR 24 2010
Rev: _____
Rev: _____
File: _____

SHEET
E-100

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DESIGN & ENGINEERING
17 N. 24th ST. SUITE 22
BILLINGS, MT 59101
(406) 245-3599

Centennial Park
PHASE 1
ELECTRICAL PLAN

CARL THUESEN

GOLF COURSE ARCHITECTURE
LANDSCAPE ARCHITECTURE

1925 GRAND AVE. SUITE 105
P.O. BOX 22943
BILLINGS, MT 59104
406/252-5545 FAX 245-9855

Drawn by: _____ D6

Date: 1 JAN 24 2002
Checked by: GB

Date: MAR 24 2010

Rev. _____

Rev. _____

FIG. 1.

SHEET

E-100

- NOTE THAT ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH NEC (2005 EDITION).
2. CONTRACTOR SHALL CALL FOR INSPECTION BY THE CITY ENGINEER TO VERIFY THE LOCATION OF UTILITIES TO COVERING ANY UNDERGROUND CONDUITS. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN DEMONSTRATION OF PROPER BURIAL DEPTHS AND PROTECTIVE COATINGS OF CONDUITS WITH BITUMASTIC.
 3. CONTRACTOR SHALL LOCATE EXISTING UTILITIES AND PATCH/REPLACE/REPAIR ANY DAMAGED UTILITIES. CONTRACTOR SHALL BE ACCOMPANIED IN ACCORDANCE WITH APPLICABLE STANDARDS AND REGULATIONS TO THE CITY OF MELOUN.
 4. ELECTRICAL SHALL BE ROUTED IN SAME TRENCH WHEREVER POSSIBLE. WHERE RUN OF POWER IS RUN IN ITS OWN TRENCH, BURY AT 24".
 5. COMPLY WITH DETAIL 1/C-31 WHENEVER GARAGE OR DRIVEWAY ARE TO BE PATCHED OR REPAIRED TOGETHER WITH BACKFILL OR WITH TRENCHING.

PLAN 2/E100 WORK NOTES

- ① PREFAB TRANSFORMER PAD WITH TRANSFORMER BY NVE.
 - ② SELF-ILLUM. PAD-MOUNT UTILITY TRANSFORMER.
 - ③ CONDUIT/ENTRANCE FOR PRIMARY CONDUITS.
 - ④ CONDUIT/ENTRANCE FOR SECONDARY CONDUITS. WHEREVER POSSIBLE, JUNCTION TRANSFORMER TO AVOID CROSSING PRIMARY CONDUIT/CONDUIT ROUTES.
 - ⑤ LOCKABLE GATE WITH OPENING 2'-0" WIDER THAN WIDTH OF TRANSFORMER AND LINED UP TO ALLOW CLEARANCE.
 - ⑥ PEDESTAL MOUNT 400A, 480V, SINGLE PHASE TRANSFORMER CASE (NEMA 3B; OR D117-0-23-1; OR EQUIVALENT) COORDINATE WITH TRANSFORMER.
 - ⑦ PANEL POD WITH NEMA 3B ENCLOSURE.
 - ⑧ GROUND RODS IN ACCORDANCE WITH TABLE 3/01D.
- CLEARANCE TO ANY
OF PANEL, NO. OF
ELECT. BLOCK,
MATERIALS
- WORKING AREA
OF TRANSFORMER
OBSTRUCTIONS,
- WORKING AREA
OF PANEL,
OBSTRUCTIONS, WALLS

2 UTILITY TRANSFORMER
E100 SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"



-
- The diagram illustrates a lightning protection system. It features a central vertical ground rod labeled '10" - 3/4" COPPER GROUND ROD (TYP.)'. This rod is connected to a horizontal structure labeled 'GROUND CONNECTION TO THREE-POINT GROUNDING ELECTRODES AND EHV 305 (OR EQUIVALENT)'. The horizontal structure is also connected to a 'SERVICE ENTRANCE OR LIGHTNING PROTECTION SYSTEM'. The system is grounded to 'GROUND LEVEL' and includes a 'CADWELD OR EQUIVALENT (TYP.)' connection. The diagram also shows a '6" MIN (TYP.)' dimension for the ground rod and a '30'-0" MIN (TYPICAL)' dimension for the horizontal structure.
- | SERVICE RATING | ⓐ |
|----------------|------------------|
| 2000V OR LESS | #2 AWG CU BARE |
| 2525A TO 400A | #1/2 AWG CU BARE |

3 GROUNDING TERMINAL INSTALLATION
E100 DE450A01 N.T.S.

(E100) DE450A01

N.T.S

SITE LIGHTING & ELECTRICAL

E100.

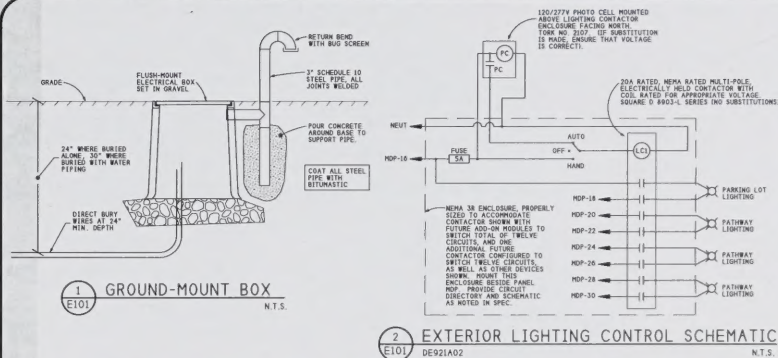
SCALE: 1" = 100'-0"

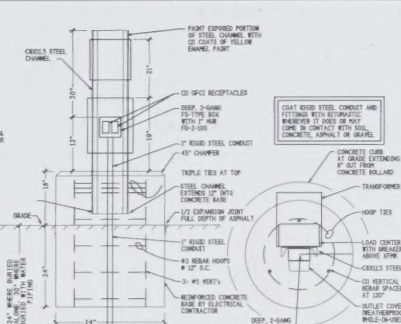
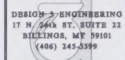
ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	HOMER TO PANEL. WAVING INDICATES CIRCUIT
	NUMBER OF WAVE MARK INDICATES NUMBER OF WAVE MARKS. WAVING INDICATES CIRCUIT NOT FROM MAIN FEEDS THE CIRCUIT
	WAVING INDICATES CIRCUIT NOT FROM MAIN FEED. 'X' INDICATES CIRCUIT WILL BE OPEN BY ALL PANELS IN ALL CONDUIT RAYS
	WAVING INDICATES CIRCUIT NOT FROM MAIN FEED AND CONDUIT RAYS. ALL CONDUIT RAYS ARE PROVIDED FOR MAIN FEED. WAVING INDICATES CIRCUIT NOT FROM MAIN FEED. 'X' AND 'Y' INDICATES CIRCUIT WILL BE OPEN BY ALL PANELS IN ALL CONDUIT RAYS
	UNDERGROUND FIBER OPTIC CABLE
	UNDERGROUND FIBER OPTIC
	UNDERGROUND FIBER OPTIC
	UNDERGROUND WATER LINE
	UNDERGROUND WATER - EXISTING
	NEW UNDERGROUND UTILITY POWER
	NEW UNDERGROUND POWER CIRCUIT
	NEW UNDERGROUND LIGHTING CIRCUIT
	NEW UNDERGROUND FAN MOUNTED UTILITY POWER
	NEW UNDERGROUND FAN MOUNTED UTILITY POWER
	FAN MOUNTED - 120/240V
	FAN MOUNTED - 120/240V
	DISCONNECT SWITCH - BRANCH/MAIN DISCONNECT
	CONNECTION - HARD WIRED TO EQUIPMENT
	CONNECTION TO BREAKER/CONTROLLER
	SWITCH - FUSE MOUNTED
	SWITCH - BREAKER MOUNTED
	RECEPTACLE - GROUND FAULT PROTECTED WITH GROUNDING
	GROUND MOUNTED DISCONNECT/NOT GROUND MOUNTED DISCONNECT/NOT
	LIGHTING CONTRACTOR IN NEW OR EXISTING
	POTENTIAL

 PLAN 1/E100 WORK NOTES

10. LOCATION OF EXISTING NORTHWARDS ENERGY WAVE JUNCTION BOX TO REMAIN. COORDINATE WITH UTILITY TO REMOVE AND RE-SET BOX IN LINE WITH SHEET C-1.
11. COORDINATE WITH NWE TO DISCONNECT AND REMOVE EXISTING UTILITY TRANSFORMER. PROVIDE NEW TRANSFORMER TO BE OWNED THAT THIS TRANSFORMER PREVIOUSLY FEED TURN OVER TO OWNER.
12. COORDINATE INSTALLATION OF NEW UTILITY TRANSFORMER WITH NWE. SEE DETAIL 4/2602. CONTRACTOR TO PROVIDE ALL NECESSARY CABLES. NWE WILL PROVIDE INSTALLATION OF FEEDER CABLES.
13. COORDINATE WITH TRANSFORMER AND LOADCENTER FOR 120/240V POWER. SEE DETAIL 4/2601.
14. 2" RURED CONDUIT WITH PULLESTING FOR FUTURE SCREWBORND. PROVIDE 1" JST REVERSE MOUNTING FOR FUTURE SCREWBORND.
15. GROUND MOUNT POLE FOR FUTURE SCREWBORND. PROVIDE DETAIL 1/4501. LOCATION DETAIL 1/4500. WARMING TRUCK.
16. DETAIL POLE BASE TO BE COORDINATE WITH DETAIL 3/4501. COORD POLE LIGHTS WITH LIGHTING CONTRACTOR AS SHOWN IN DETAIL 3/4501.
17. GROUND MOUNT POLE WITH WIRING FOR FUTURE POWER. SEE DETAIL 1/4501.
18. FOR ALTERNATE BID A6, PROVIDE 2" CONDUIT TO JUST NORTHWEST OF BOLDING AREA. PROVIDE AND INSTALL GROUND POLE. ALTERNATE PROVIDE 2" CONDUIT TO SOUTH PARK AREA. FOR ALTERNATE BID A7, PROVIDE 2" CONDUIT TO SOUTH PARK AREA. PROVIDE AND INSTALL GROUND POLE. AT THAT LOCATION, NOTE THAT BOTH CIRCLES CAN BE RUN IN THE SAME TRENCH WHEN APPLICABLE. ALSO NOTE THAT TRENCH FOR JORDAN DRIVE LINE CAN BE UTILIZED, WHEN RUN WITH WATER PIPING. BURN IN BURNED POWER TO BE RUN TO THE NORTH.
19. PROVIDE AND INSTALL 2" RURED CONDUIT FOR FUTURE LIGHTING ALONG TRAILS THIS SHALL BE TO BE AS ALTERNATE A6.
20. PROVIDER AND INSTALL 2" RURED CONDUIT FOR FUTURE LIGHTING ALONG TRAILS THIS SHALL BE TO BE AS ALTERNATE A6.
21. PROVIDE AND INSTALL POLE BASE, POLE AND POLE LIGHT MOUNTING FOR FUTURE SCREWBORND. PROVIDE DETAIL 1/4501. POLE TO BE BID AS ALTERNATE A1.
22. PROVIDE AND INSTALL POLE BASE, POLE AND POLE LIGHT MOUNTING FOR FUTURE SCREWBORND. PROVIDE DETAIL 1/4501. POLE TO BE BID AS ALTERNATE A1.
23. PROVIDE AND INSTALL 2" RURED CONDUIT FOR FUTURE CONCESSION STAND, MARK CONSTRUCTION AND SHOW DIMENSIONS TO LIGHTING CONTRACTOR.
24. FOR ALTERNATE BID A6, PROVIDE 2" CONDUIT TO JUST NORTHWEST OF DAY USE AREA. PROVIDE AND INSTALL GROUND POLE. THIS WILL BE USED AS A POLE TO THE FUTURE AREA AND PROVIDE GROUND POLE TO THE NORTH OF THE FUTURE AREA.
25. PROVIDE FOR MAIN ORIGIN LINE CAN BE USED, WHEN RUN WITH WATER PIPING. BURN ELECTRICAL, AT 30", WHEN POWER IS RUN IN ITS OWN TRENCH, BURN AT 24".
26. FOR ALTERNATE BID A6, PROVIDE 2" CONDUIT TO FUTURE PAVILION AREA. PROVIDE AND INSTALL GROUND POLE AT THAT LOCATION. PROVIDE AND INSTALL 2" RURED CONDUIT TO FUTURE PAVILION AREA PROVIDE GROUND POLE AT THAT LOCATION.





4 PEDESTAL DETAIL
E101 DE140A05

4 PEDESTAL DETAIL
E101 DE140A05

